



Columbia University
Bulletin of Information

BARNARD COLLEGE

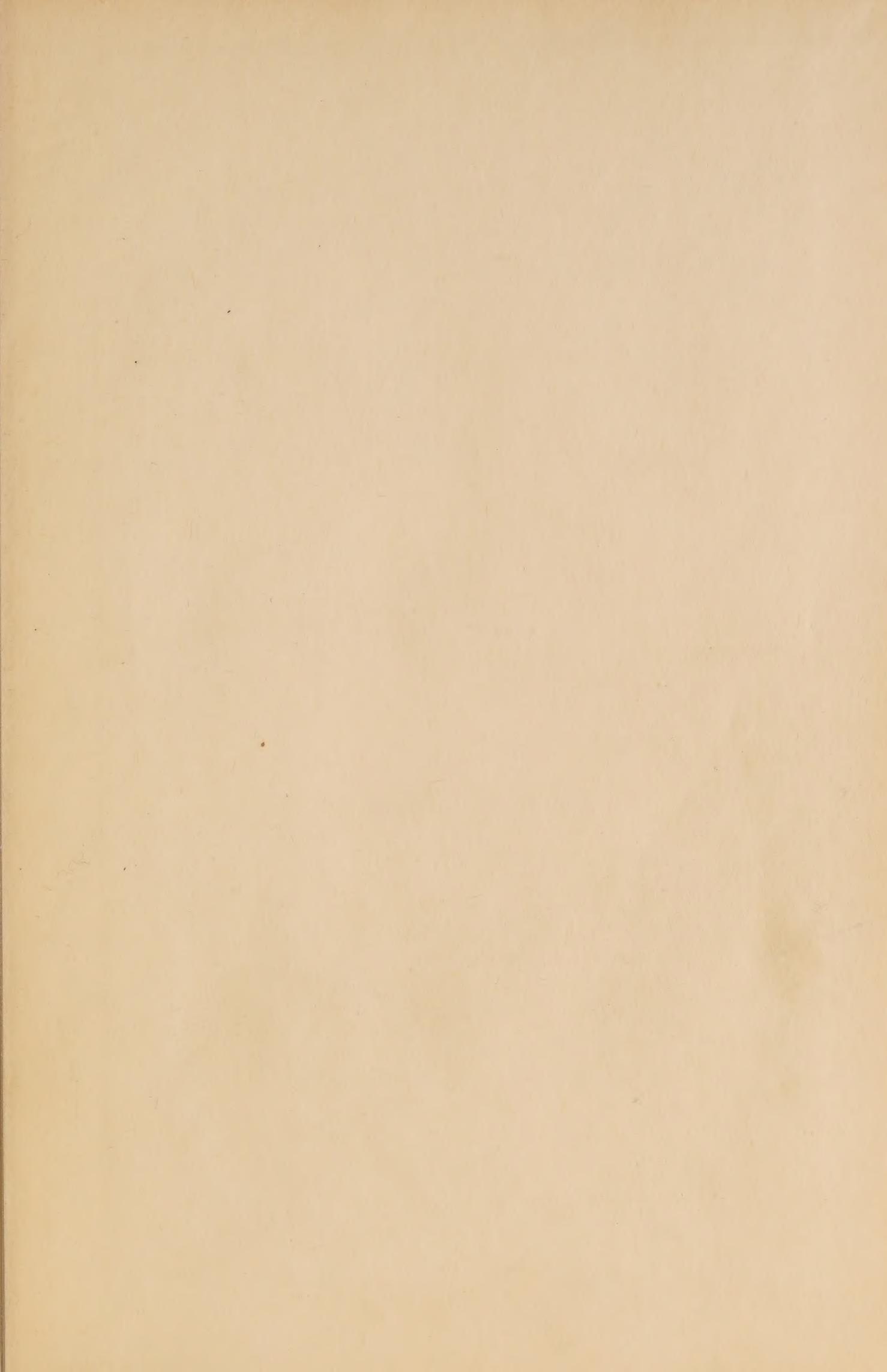
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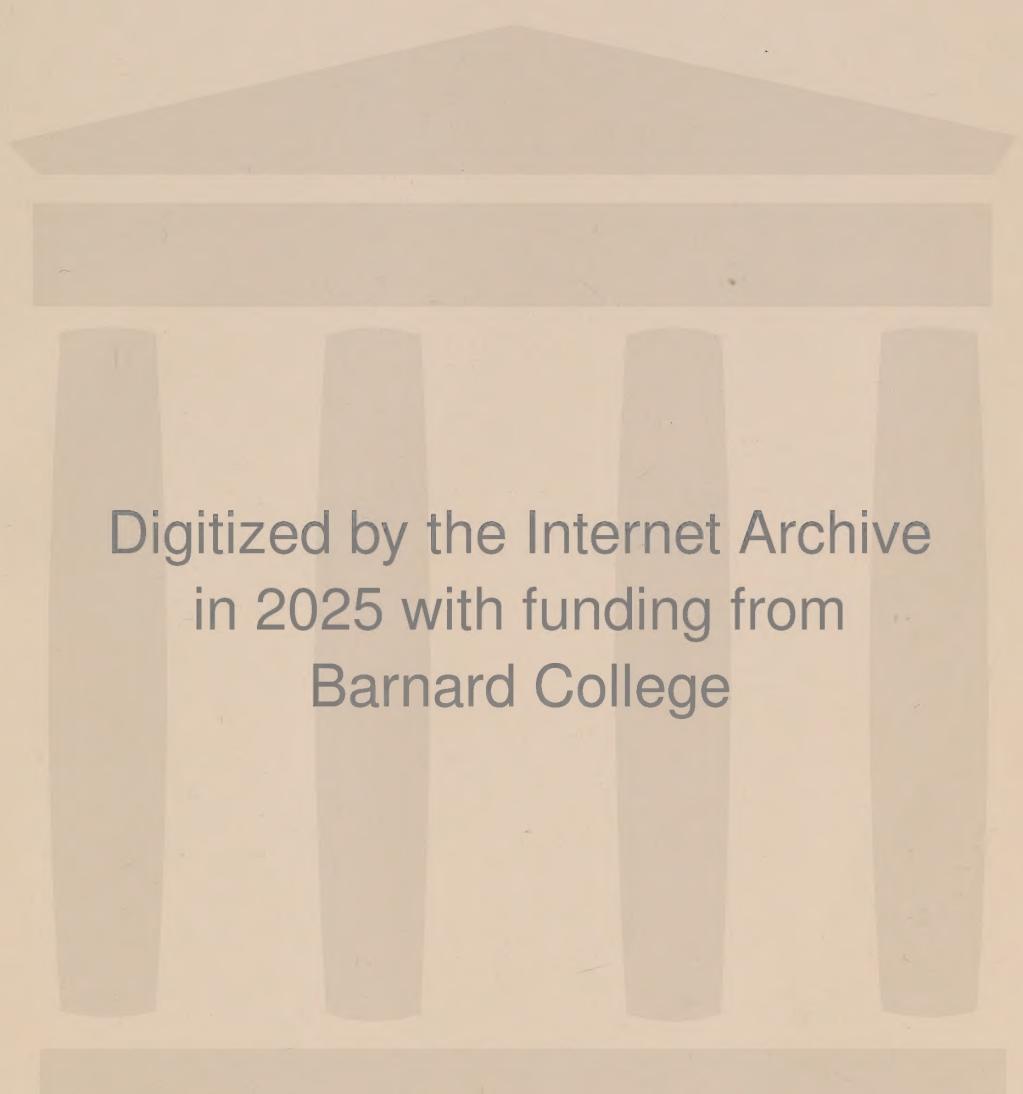
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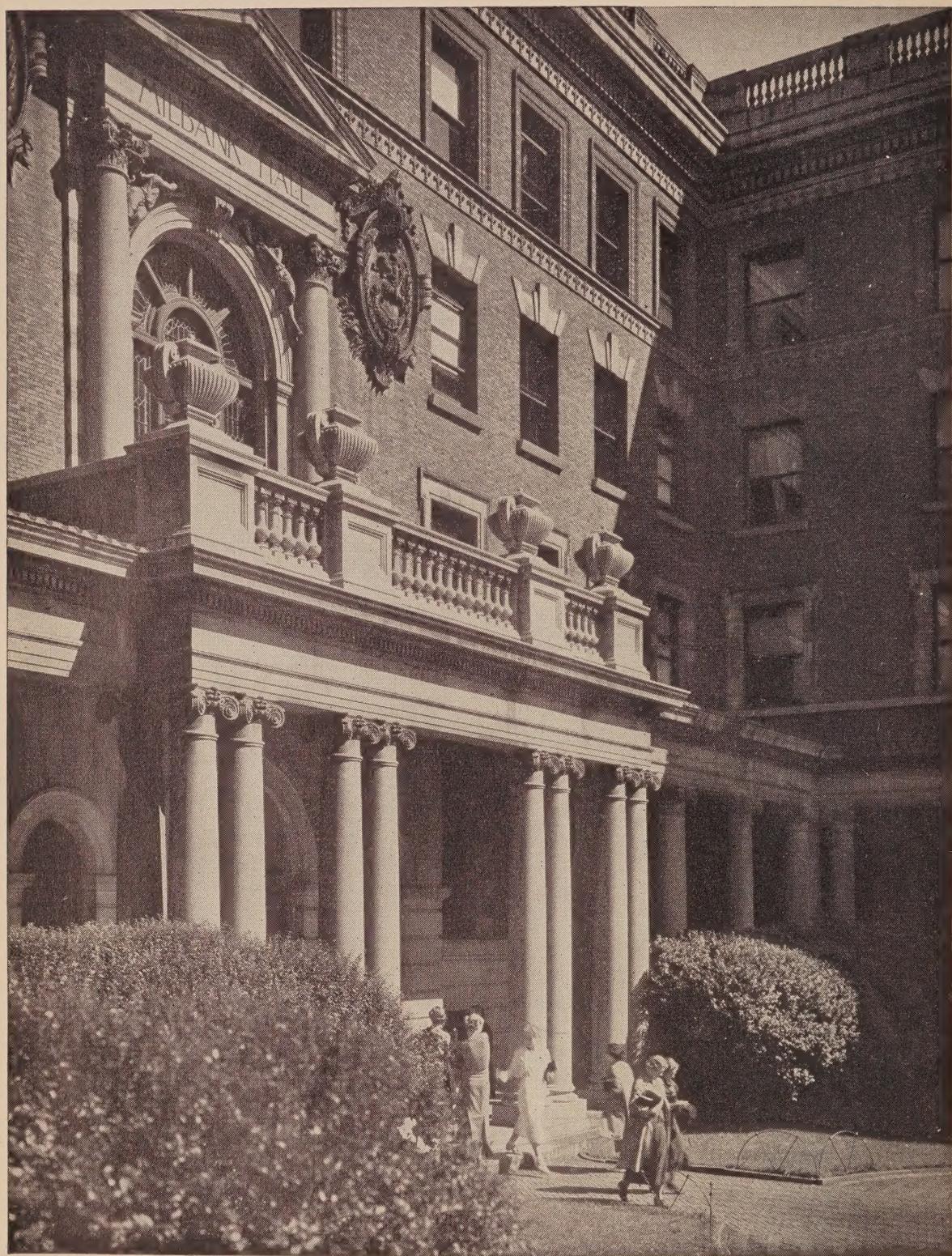
BARNARD COLLEGE
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MILBANK HALL, BARNARD COLLEGE

Columbia University
in the City of New York

BARNARD COLLEGE

1941-1942



MORNINGSIDE HEIGHTS
NEW YORK

FORM OF BEQUEST

To Barnard College I give and bequeath the sum of \$ for
the uses and purposes of said Corporation.

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1941

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PAUL A. SMITH, Ph.D.	<i>Associate Professor of Mathematics</i>
ETHEL STURTEVANT, A.M.	<i>Assistant Professor of English</i>

³ Absent on leave, Spring Session.

EUGENE H. BYRNE, Ph.D.	<i>Professor of History</i>
¹ THOMAS PRESTON PEARDON, Ph.D.	<i>Assistant Professor of Government</i>
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MARY MORRIS SEALS	<i>Instructor in English</i>
LOUISE G. STABENAU, A.M.	<i>Instructor in German</i>
MARGARET HOLLAND, A.M.	<i>Instructor in Physical Education</i>
MARIANNA BYRAM, A.M.	<i>Instructor in Fine Arts</i>
MARJORIE TUZO, A.M.	<i>Instructor in Physical Education</i>
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JANE HARTING, A.M.	<i>Instructor in Physical Education</i>
MIRRA KOMAROVSKY, Ph.D.	<i>Instructor in Sociology</i>
GEORGE B. YOUNG, Ph.D.	<i>Instructor in History</i>
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DONALD B. MARSH, Ph.D.	<i>Instructor in Economics</i>
GEORGIANA C. REMER, B.A. Hons. (Oxon.)	<i>Instructor in English</i>

¹ Absent on leave, 1941-42.

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LUCIA S. FISHER, A.B.	Lecturer in Chemistry
AGNES TOWNSEND, Ph.D.	Lecturer in Physics
CORA KASIUS	Lecturer in Sociology
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	Lecturer in Spanish
	Assistant in Anthropology
	Assistant in Botany
	Assistant in Botany
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MARY M. VAN BRUNT, A.M.	Assistant in Economics
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	Assistant in Mathematics
	Assistant in Psychology
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	Assistant in Zoölogy
	Assistant in Zoölogy

Other Officers of the University who give instruction in Barnard College

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LA RUE VAN HOOK, Ph.D.	Jay Professor of Greek
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FEDERICO DE ONÍS, D. en L.	Professor of Spanish Literature

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GILBERT A. HIGHET, M.A. (Oxon.)	<i>Professor of Greek and Latin</i>
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WILLIAM J. MITCHELL, A.M.	<i>Instructor in Music</i>
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BRYCE WOOD, Ph.D.	<i>Instructor in Government</i>
CHARLES DOERSAM, F.A.G.O.	<i>Music, University Extension</i>
FRED W. HOUSEHOLDER, A.M.	<i>Greek and Latin, University Extension</i>

Barnard Representatives on the University Council

The DEAN (*ex officio*), Professor HIRST (serving until June, 1941), and Professor MULLINS (serving until June, 1942).

Barnard Representatives on the University Committee on Admissions

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Committee on the Foreign Language Requirement: Associate Dean GREGORY, *chairman*, Professors PUCKETT, LE DUC and GREET, and the DEAN (*ex officio*).

Committee on Women University Undergraduates: The DEAN, *chairman*, Professors HUTTMAN, LE DUC and HOLZWASSER, the DIRECTOR OF UNIVERSITY EXTENSION, and the DIRECTOR OF THE UNIVERSITY COMMITTEE ON ADMISSIONS (*ex officiis*).

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GULIELMA F. ALSOP, M.D.	<i>College Physician</i>
MARY V. LIBBY, A.B.	<i>Assistant to the Dean — Admissions, Information</i>
HELEN P. ABBOTT, A.M.	<i>Assistant to the Dean — Residence Halls</i>
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CHRISTINA P. GRANT, Ph.D.	
	<i>Assistant to the Dean — Student Organizations and Social Affairs</i>
LORNA F. MC GUIRE, Ph.D.	<i>Freshman Adviser</i>
Alice B. RHOADS, A.M.	<i>Assistant to the Dean — Public Relations</i>
FREDERICK A. GOETZE, M.Sc.	<i>Treasurer of the University</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>

Barnard College

GENERAL STATEMENT

Columbia University. — Columbia University had its origin in the royal charter granted by Letters Patent in the reign of George II, King of England, to the Governors of the College of the Province of New York, in the City of New York, in America, creating them a Body Corporate to erect and maintain a college to be known as King's College "for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences"; with power to elect their successors, to hold property, to appoint a president, fellows, professors, and tutors, and to confer degrees.

Because of its early relationship to Trinity Church and the grant to King's College of a valuable tract of land which was a portion of the Queen's Farm, there has always existed a close relationship between the religious life of the College and the Protestant Episcopal Church. The services at the College Chapel are in accordance with the liturgy of that church.

The Revolutionary War interrupted the active work of the institution, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

The University at the present time consists of Columbia College, the undergraduate college of liberal arts for men, which offers a program of studies leading to the degree of Bachelor of Arts; the School of Law, with courses leading to the degrees of Bachelor of Laws, Master of Laws, and Doctor of the Science of Law; the College of Physicians and Surgeons, with courses leading to the degrees of Doctor of Medicine, Doctor of Medical Science, Doctor of Public Health and Master of Science in public health, and with courses in nursing leading to the degree of Bachelor of Science, or to the diploma in nursing; the School of Engineering, with courses leading to the degrees of Bachelor of Science, the several engineering degrees, and the degree of Master of Science; the School of Architecture, with courses leading to the degrees of Bachelor of Architecture and Master of Science; the School of Journalism, with courses leading to the degree of Master of Science; the School of Business, with courses leading to the degrees of Bachelor of Science and Master of Science; the School of Dental and Oral Surgery, with courses leading to the degree of Doctor of Dental Surgery; the School of Library Service, with courses leading to the degrees of Bachelor of Science and Master of Science; the nonprofessional Graduate Faculties of Political Science, Philosophy, and Pure Science, with courses leading to the degrees of Master of Arts and Doctor of Philosophy. In addition to these schools and faculties, the University includes the independent corporations of Barnard College (1889), the undergraduate college for women, with courses leading to the degree of Bachelor of Arts; Teachers College (1898), with courses offered under the Faculty of Teachers College leading to the degrees of Bachelor of Science, Master of Arts, and Master of Science;

the Advanced School of Education in Teachers College (1935), with programs of study leading to the degree of Doctor of Education, and under the Department of Educational Research of the Faculty of Philosophy or the University Joint Committee on Graduate Instruction, to the degree of Doctor of Philosophy; the College of Pharmacy (1904), with courses leading to the degrees of Bachelor of Science and Doctor of Pharmacy; Bard College (1928), Annandale-on-Hudson, New York, an undergraduate college for men with courses leading to the degree of Bachelor of Arts; Union Theological Seminary (1928), whose faculty conducts certain University work leading to the degree of Master of Arts; New York Post-Graduate Medical School (1931), which offers advanced work in medicine, and the New York School of Social Work (1940), with courses leading to the degree of Master of Science.

The University maintains three sessions during the year: the Winter Session, beginning the last Wednesday of September and ending the first Tuesday of February; the Spring Session, beginning the first Wednesday of February and ending the second Wednesday of June; and the Summer Session of six weeks' duration, beginning immediately after July 4. Through its system of University Extension the opportunity is offered to men and women to pursue subjects included in a liberal education, and to take courses toward a diploma or an academic degree.

Founding of Barnard College. — Barnard is the undergraduate college for women of Columbia University. In 1889 a group of men and women who wished to provide for women in the City of New York a college education fully equal to that offered to men, succeeded in obtaining the sanction of the Trustees of Columbia for the establishment of an affiliated woman's college. A charter was granted by the State of New York, and promises of subscriptions for the support of the college during the first four years of its existence were secured. Because President Frederick A. P. Barnard of Columbia College had for many years been an ardent advocate of the admission of women to Columbia, the founders of the new college gave it his name. With seven instructors selected from the teaching staff of Columbia and with fourteen regular and twenty-two special students, Barnard opened in the fall of 1889 in a rented house at 343 Madison Avenue.

Relation to the University. — In 1900 when the growth of the College had made inappropriate the original informal arrangement for instruction, an agreement was made between the Trustees of Columbia College and of Barnard College by which Barnard was incorporated in the educational system of the University. By the provisions of this agreement, the President of the University is *ex officio* President of Barnard College. Barnard professors are appointed by the University on the nomination of the Dean with the approval of the President and the Trustees, and rank as professors of the University. The College is represented on the University Council by its Dean and two elected representatives. The graduates of Barnard receive their degrees from Columbia, and these degrees are maintained as of equal value with corresponding degrees conferred upon the graduates of Columbia College. The University libraries are open to women on the same terms as to men. Various opportunities in other schools of the University have also, through the relation of Barnard College to Columbia, been opened to Barnard students. On the other hand, Barnard has its separate

corporate and financial organization, with its own Board of Trustees. It retains its own internal administration, conducted by the Dean, who is appointed by the President with the advice and consent of the Trustees of Barnard. Its courses are determined and administered by its own Faculty, consisting of all professors who give instruction at Barnard.

Buildings and grounds. — Since 1897 Barnard has occupied the land on Broadway between 119th and 120th Streets, just west of the main buildings of the University. In 1903 Milbank Quadrangle, extending from 119th to 116th Streets, was added through the gift of Mrs. A. A. Anderson. In 1936, largely through a gift from the General Education Board, the College purchased Riverside Quadrangle, between 119th and 120th Streets, Claremont Avenue and Riverside Drive. Milbank Hall and Brinckerhoff Hall, erected in 1896, the gifts respectively of Mrs. Anderson and Mrs. Van Wyck Brinckerhoff, and Fiske Hall, erected in 1898, the gift of Mrs. Josiah M. Fiske, are three adjoining buildings on 119th Street; they contain the administrative offices, lecture rooms, and laboratories. Brooks Hall, a residence hall at the southern end of the Quadrangle on 116th Street, was erected in 1907. A new residence hall adjoining Brooks Hall and known as Hewitt Hall was completed in 1925. Barnard Hall, given by Mr. Jacob H. Schiff and erected in 1917, is on Milbank Quadrangle near 117th Street; it contains the gymnasium, swimming pool, lunchroom, reading room, doctors' and nurses' offices, and rooms for student organizations. Riverside Building, a former private house on Riverside Drive, provides temporarily a few offices and classrooms.

Financial statement. — The College owns equipment, buildings, and grounds of a value of \$4,300,000, and holds productive funds providing a net income of about \$200,000.

Course of study. — Barnard College offers to women a liberal course of undergraduate instruction of four years' duration, leading to the degree of Bachelor of Arts.

Students who wish two years only of collegiate work, in preparation for professional schools, may enter under the same conditions as those intending to complete the requirements for the Bachelor of Arts degree, and take, during the freshman and sophomore years, a program modified to meet the requirements of the professional school to which the transfer is to be made.

Under certain circumstances, Barnard students in the Bachelor of Arts course may, after three full years of work at Barnard College, receive permission to substitute the first year of an approved professional school for the senior year at college, and still obtain the Bachelor of Arts degree.

Academic discipline. — The continuance of each student upon the rolls of the University, the receipt by her of academic credits, her graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel her registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve powers of the President, in the Dean of each Faculty and the Director of the work of each administrative board.

Residence. — All students not residing with their parents are required to live in Brooks Hall or Hewitt Hall unless for reasons of weight they receive

special permission to live with relatives. Applications for such permission, accompanied by letters of approval from parents or guardians, should be made before August 1 to the Assistant to the Dean in charge of Social Affairs. Reservations for rooms outside, made without permission, will not be approved.

ADMISSION

To Columbia University in general. — A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on the grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student, with permission to attend such courses of instruction as he or she is qualified to take, but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive a formal statement of the satisfactory completion of any course. (See page 24.)

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Admission to the several schools and colleges of Columbia University presupposes certain educational qualifications, but the possession of these qualifications does not entitle a candidate to admission unless his or her character and personality are acceptable to the University and unless he or she is physically fit to do the work which he or she desires to undertake. Satisfaction of the minimum requirements for admission to a school does not insure admission, particularly if the school be crowded.

To Barnard College in particular. — Barnard College selects its students from an eligible list consisting of all candidates who present satisfactory evidence of good character, good health and good intellectual ability and preparation.

In choosing the members of its Freshman Class and also the students from other colleges admitted to higher standing, the College keeps in mind the desirability of having a student body which, though reasonably congenial, will be as far as possible a cross-section of the country geographically, economically, socially and in other ways, so that it will be educationally valuable for the members to know one another and work together. This consideration may influence the selections of the Committee on Admissions.

Preliminary application for admission. — Each student who plans to enter the College should file a preliminary application for admission with the Secretary to the Committee on Admissions at as early a date as possible, preferably before March 1, accompanied by a money order or draft for \$10, payable to Barnard College. This application fee will not be credited on the college fees nor refunded for any cause.

ADMISSION TO THE FRESHMAN CLASS

Candidates must be at least fifteen years of age and must submit the following credentials:

1. Satisfactory evidence of good character, personality and promise. Confidential reports from the applicant's school principal and teachers are given most weight. Whenever possible a personal interview with a member of the Admissions Office staff is desired. When this is not possible a photograph must be submitted and the names of at least three responsible citizens who know the candidate personally given as references.

2. Satisfactory evidence of good health. This must consist of a health history and a report of a health examination. The necessary forms, which must be filled out and returned to the Barnard College Physician, will be supplied by the Secretary to the Committee on Admissions.

3. Satisfactory evidence of intellectual ability and preparation. This should consist normally of graduation from an approved secondary school, or some equivalent education acceptable to the College, and also records made in certain tests.

The school course should normally include four years of work in English, three years in some foreign language, two years in another foreign language, a year of algebra and a year of plane geometry, but exceptions may be made under special conditions. The rest of the course should be selected mainly from history, science, additional languages, additional mathematics, music and art.¹

The tests required are the Scholastic Aptitude Test, which all candidates must take, and such scholastic achievement tests or comprehensive examinations of the College Entrance Examination Board as may be determined by the Committee on Admissions after consideration of the school record.

The emphasis will be placed on the candidate's ability to do college work successfully. If a student is admitted to Barnard College, she will be admitted without entrance conditions. If the time in secondary school has been curtailed, or if the school record is lacking in some essential element, the College may require an additional term of work for graduation.

GENERAL INFORMATION CONCERNING EXAMINATIONS

The College Entrance Examination Board will administer three series of examinations in 1941. On Saturday, April 5, it will hold the Scholastic Aptitude Test (including a mathematical section) and an achievement test. On Saturday, June 14, the Board will hold the Scholastic Aptitude Test (not including the

¹ For pre-medical students additional work in mathematics and German is advised.

mathematical section) and during the following week examinations in college preparatory subjects. On September 8, 9, and 10, the Board will offer the Scholastic Aptitude Test (not including the mathematical section) and tests in the majority of college preparatory subjects. Separate bulletins regarding each series, containing the places of examination and other information, may be obtained without charge from the Executive Secretary of the College Entrance Examination Board.

Candidates for any of the three series should make application by mail to the Executive Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. Blank forms for this purpose will be sent to any teacher or candidate upon request. In order to facilitate the making of arrangements for the conduct of examinations, all applications should be filed as early as possible. Each application should be accompanied by a fee of ten dollars, except for candidates taking only the Scholastic Aptitude Test for whom the fee is five dollars.

The applications and fees of all candidates who wish to take the examinations should reach the Executive Secretary of the Board not later than the dates specified in the following schedule:

For examination centers	June Series	April Series	September Series
East of the Mississippi River or on the Mississippi.....	May 26	March 15	August 18
West of the Mississippi River or in Canada or Mexico.....	May 19	March 8	August 11
Outside of the United States, Canada, and Mexico, except in Asia.....	May 5	....	....
In China or elsewhere in the Orient.....	April 21	....	....

An application which reaches the Executive Secretary later than the scheduled date will be subject to a penalty fee of five dollars in addition to the regular fee.

When a candidate has failed to obtain the required blank form of application, the regular fee will be accepted if it arrives before the required date and is accompanied by the candidate's name and address, the exact examination center selected, the college to which his report is to be sent, and a list of the subjects in which he is to be examined.

A candidate desiring to take the Scholastic Aptitude Test even though he is to take no other examination, must file with the Executive Secretary of the Board the usual application for examination. Each candidate who registers for the test will receive a practice form. In order to secure admission to the test, the candidate must present not only his ticket of admission and identification card but also the answer sheet for the practice booklet with the spaces filled in as directed.

Candidates are requested to report for morning examinations at 8:45 and for afternoon examinations at 1:45. The examinations will be held in accordance with the time (Standard Time or Daylight Saving Time) observed in the local schools.

The College Entrance Examination Board will report to the institution indicated on the candidate's application the results of his tests. Whether or not a report will be sent to the candidate or his school will depend upon whether the candidate registers in Examination Class A or in Examination Class B. The college will advise the candidate in which class he should register.

ADDITIONAL INFORMATION CONCERNING THE APRIL SERIES

A candidate who takes the April tests for admission to college should secure a blank form of application from the College Entrance Examination Board; a candidate who takes them in order to qualify for a scholarship must secure the application from the college offering the scholarship.

Detailed information regarding the content of the April tests, with the exception of the practice form for the Scholastic Aptitude Test, and the titles of the sections of the achievement test is not published. The achievement test will consist of nine sections, as follows: Social Studies, Spatial Relations, four languages (French, German, Latin, Spanish), and three sciences (Chemistry, Physics, Biology). A candidate will be instructed to take three, *and only three*, of these sections, namely, the three which his college designates.

ADDITIONAL INFORMATION CONCERNING THE JUNE SERIES

Detailed definitions of the requirements in all June examination subjects except the Scholastic Aptitude Test, are given in a circular of information entitled *Description of Examinations*, published annually about December 1. A single copy of this document will be sent to any teacher without charge. In general, there will be a charge of thirty cents, which may be remitted in postage.

When the examination supplies of the local supervisor permit, candidates who have failed to file an application with the Executive Secretary may be admitted, upon payment to the local supervisor of a fee of five dollars in addition to the regular fee, to all examinations except the Scholastic Aptitude Test. Such candidates should present themselves at the beginning of the period of registration. As candidates taking the Scholastic Aptitude Test must have adequate time in which to study the practice form, the Board cannot permit its supervisors to register such candidates on the morning of the test. The supervisor is authorized to make an exception to this rule, however, in case a candidate has had an opportunity to study a practice booklet.

ADDITIONAL INFORMATION CONCERNING THE SEPTEMBER SERIES

Inasmuch as no special preparation for the Scholastic Aptitude Test and the achievement test in science and language is advocated, detailed information concerning them, with the exception of the practice form for the Scholastic Aptitude Test, has not been published. Descriptions of the Mathematics Attainment Test and the examinations in English and in American History are included in the circular entitled *Description of Examinations*.

TIME SCHEDULE OF EXAMINATIONS

JUNE 1941

The examinations will be held in accordance with the time (Daylight Saving Time or Standard Time) observed in the local schools. Candidates will be expected to ascertain whether or not Daylight Saving Time is to be observed at a given center.

When presenting themselves for examination, candidates must have a clear understanding as to the particular examinations for which they have registered. For example, a candidate on Friday morning must know which examination in history he should take. The local supervisor in charge of the conduct of the examinations cannot assume the responsibility of deciding for candidates which examinations they should take.

SATURDAY, JUNE 14

8:45 A.M.	Registration
9:00 A.M.	Scholastic Aptitude Test* (not including a mathematical section)
12:00 M.	Close of period

MONDAY, JUNE 16

8:45 A.M.	Registration
9:00 A.M.	English (three hours)
12:00 M.	Close of morning period
1:45 P.M.	Registration
2:00 P.M.	Biology — Elementary (three hours) Biological Sciences — Two Years (three hours)
5:00 P.M.	Close of afternoon period

TUESDAY, JUNE 17

8:45 A.M.	Registration
9:00 A.M.	Mathematics Attainment Test† Mathematics Alpha (three and a half hours) Mathematics Beta (three and a half hours) Mathematics Gamma (four hours)
1:00 P.M.	Close of morning period
1:45 P.M.	Registration
2:00 P.M.	German (three hours) Spanish (three hours)
6:00 P.M.	Close of afternoon period for candidates taking more than one examination

* No candidate will be admitted after this test has begun. The actual time allowed for the writing of the answers is somewhat less than three hours, several minutes being used by the supervisor for reading of directions, collecting of test booklets, etc.

† No candidate will be admitted after the test has begun. The actual time allowed for the writing of the answers is somewhat less than the time indicated, several minutes being used by the supervisor for reading of directions, collecting of test booklets, etc.

ADVANCED STANDING

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WEDNESDAY, JUNE 18

8:45 A.M.	Registration
9:00 A.M.	French (three hours)
12:00 M.	Close of morning period
1:45 P.M.	Registration
2:00 P.M.	Physics — Elementary (three hours)
	Physical Sciences — Two Years (three hours)
5:00 P.M.	Close of afternoon period

THURSDAY, JUNE 19

8:45 A.M.	Registration
9:00 A.M.	Latin (three hours)
12:00 M.	Close of morning period
1:45 P.M.	Registration
2:00 P.M.	Chemistry — Elementary (three hours)
5:00 P.M.	Close of afternoon period

FRIDAY, JUNE 20

8:45 A.M.	Registration
9:00 A.M.	History <i>A</i> . Ancient History (three hours)
	History <i>B</i> . Modern European History (three hours)
	History <i>C</i> . English History (three hours)
	History <i>D</i> . American History (three hours)
1:00 P.M.	Close of morning period for candidates taking more than one examination. Such candidates may have but four hours, even though they take more than one examination.
1:45 P.M.	Registration
2:00 P.M.	Greek (three hours)
	History <i>CD</i> . English and American History (three hours)
	History <i>DE</i> . American History and Contemporary Civilization (three hours)
6:00 P.M.	Close of afternoon period for candidates taking more than one examination.

ADMISSION TO ADVANCED STANDING

Students who have satisfactorily completed at least a year of work at an acceptable college, scientific school, or foreign institution of equivalent grade may be admitted with such advanced credit as their previous records may warrant. In general a candidate with a good record transferring to Barnard from a similar college of equal standing will receive at Barnard a year's credit for a year's work at the institution from which she comes.

Each candidate should send to the Committee on Admissions with her application a catalogue of her college plainly marked, showing entrance credit and courses taken. These should be accompanied by an official transcript of

her college record, including entrance credit. If for any reason a student cannot obtain an official record until the end of the term, she may substitute her report cards. One or the other must be in the hands of the Committee on Admissions before the Committee on Transfers can estimate her standing in Barnard College. The Committee on Transfers may give an applicant a tentative estimate of the time she will be expected to spend at Barnard in order to secure a degree, and the prescribed work she will be asked to do. Final determination of these matters lies with the Committee on Transfers, which reserves the right of readjusting credit at any time. These reports should be received by the Committee on Admissions by July 1 for admission in September and by December 1 for admission in February; otherwise action on the case may be delayed until just before the opening of college. Final action on admission depends upon (1) the honorable dismissal, (2) the certificate of good moral character from an authorized representative of her college, and (3) the certificate of sound health.

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive a degree who has resided less than two full sessions (winter or spring) at Barnard College. (See also paragraph 6, page 37.)

A candidate for admission with advanced standing from a junior college may be asked to take some form of examination for admission (the scholastic aptitude test, if her records warrant it), and if admitted, will be allowed to enter courses that succeed her junior college courses. No definite credit for her junior college work can be assigned until after she has had an opportunity to establish a good record at Barnard.

ADMISSION AS SPECIAL STUDENTS

Women who wish, without working toward a degree, to make a serious study of some subject or group of subjects, may, with the approval of the Committee on Admissions, enter Barnard as nonmatriculants, not candidates for the degree. They need not pass formal entrance examinations, but they must submit satisfactory credentials in regard to character and qualifications for the courses they wish to take.

Candidates for admission as nonmatriculants must be mature. They may not pursue merely elementary courses. They must not, within ten months of the time of application, have been rejected or become deficient as regular students.

They will be held to the observance of the same regulations as to attendance, examination in course, proficiency, and deficiency as regular students. They are also subject to the usual health regulations (see page 52).

They are entitled to a formal statement as to the satisfactory completion of the work that they have taken. They may, in view of a good record in college courses, be transferred by the Committee on Instruction to the matriculated basis as candidates for a degree.

REGISTRATION

Registration. — Before attending any University exercise each student shall comply with the regulations in regard to registration and payment of fees. She shall present herself in person at the office of the Registrar and shall there file

a registration blank giving such information as may be required for the College records.

Every new student shall also at the time of registration file a statement of the courses which the Committee on Instruction has authorized her to pursue. Students already in college shall give notice of their choice of elective courses for each session to the Registrar on dates to be announced from time to time by the Committee on Instruction. Failure to file a program during the period announced by the Committee on Instruction will cause the student to incur a fee of \$10 for this privilege. Students in college who defer filing programs from April until after Commencement will incur a fee of \$20.

In September the office of the Registrar will be open for registration on Friday, Monday, and Tuesday, September 19, 22, 23, 1941. New students may register also on Wednesday, September 24, 1941.

In February, students who have been in attendance during the winter session and who have filed in December programs which have been approved may complete their registration during specified hours on Friday, January 30, and on Monday, February 2, 1942.

Registration after 4 P.M. on Monday, February 2, 1942, by a student whose program has been approved will be considered a late registration and will involve the payment of a late registration fee.

Students whose programs have not been approved for one reason or another by the Committee on Instruction will be required to defer registration until Tuesday, February 3, 1942.

All new students entering in February will register on Tuesday, February 3, 1942.

Students registering late are charged an additional fee of \$5 and are held accountable for absences thus incurred.

Each student who holds a scholarship shall present her scholarship certificate to the Bursar *at the time of registration*.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registering in Barnard shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the Dean.

Withdrawal. — An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the College, but no student under the age of twenty-one years shall be entitled to a discharge without the assent of her parent or guardian furnished in writing to the Dean. Students withdrawing are required to notify the Registrar. (See also *Rebates*, below.)

GENERAL STATEMENT REGARDING FEES AND THE REGULATIONS GOVERNING THEIR PAYMENT

All fees are payable semiannually in advance at the Bursar's office, and no reduction is made for late registration. Registration is not complete until registration, tuition and laboratory fees are paid. Inasmuch as the registration

fee is charged for the actual process of fulfilling all the requirements of the Registrar's office, it is incurred when the student receives her bill and must be paid even if she withdraws before attending classes. Failure to pay fees on or before the last day of registration (see Academic Calendar) imposes automatically the statutory charge of \$5 for late registration. In special cases, for satisfactory reasons and upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of one half — that is, \$95 — of the tuition fee for the session until approximately mid-term — November 7 or March 13 — provided that permission is granted before September 12 or January 23. Any application for the privilege of deferred payment made after September 12 or January 23 will be considered late payment and as such will be subject to a \$5 late payment fee. In every case where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional \$5 late payment fee will be incurred.

Under the regulations, the privileges of the College are not available to any student delinquent in the payment of her fees.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

Checks in payment of all fees, including those for charges in the residence halls, should read "Pay to the order of Barnard College," and should be made out for the exact amount of the payment. As change will not be given on checks, no check which is made out for more than the correct amount will be accepted.

Rebates. — Tuition fees alone are subject to rebate. Rebates may be allowed

1. For courses discontinued on or before the second Saturday of each session. After that date no fees will be returned for any course which the student may for any reason discontinue.
2. For total withdrawal from the college, when a pro rata return of fees may be authorized by the Registrar. When such a rebate is allowed it **must be applied for in writing at the time of withdrawal** and will be reckoned from the date upon which the Registrar receives notice from the student.

FEES

Application fee, payable when application for admission is filed \$ 10.00

This fee is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session (see below).

Fees, payable each session for a matriculated student enrolled

1. For 10 points or more:

Registration fee \$ 10.00

This fee is due each session when the Registrar issues the bill to the student and is never refunded.

Tuition fee 190.00

Student activities fee 3.50

For all regular and unclassified students for each winter or spring session or any part thereof

\$203.50

2. For 9 points or less:

Registration fee see above
Tuition fee at the rate of \$14 per point for academic work
and \$5 each for English D and physical education, if these
are required.

Student activities fee see above

Fees, payable each session for a nonmatriculated student:

Registration fee see above
Tuition fee at the rate of \$14 per point for academic work
and \$5 each for English D and physical education, if these
are required, with a maximum fee of \$190 per session.

Additional fees are charged for the following:

Tuition for courses in applied music:

Tuition for courses in studio work in fine arts:

Drawing and painting u11-u12, each course 25.00

Tuition for professional and extension courses that are *not* taken for credit and for certain University classes that, with the permission of the Committee on Instruction, are taken for credit toward the Barnard degree. This varies with the course taken.

Late registration (see page 25)	5.00
Privilege for filing program late	10.00

For students in college who fail to file their programs for the coming session within the period announced for that purpose by the Committee on Instruction. Students in college who defer filing programs from April until after Commencement are charged \$20 for that privilege.

Examinations, payable in each case before the examination is held:

For each and every deficiency or special examination 3.00

(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended, whether taken prior or subsequent to admission.)

For late application 5.00
For the degree 20.00

This fee is never refunded. It must be paid on or before April 15 by candidates for the degree in June or in October and by January 1 by candidates for the degree in February.

Deposits for the use of apparatus, material, and the like are required in

Chemistry 63, 64, each course	10.00
Chemistry 41, 42, 65, 66, each course	12.50
Chemistry 42a, 105, 106, 145, 146, 156, 157, 158, each course	15.00

NOTE. — Every financial obligation to the College incurred by the student must be met by January 1 of the winter session or by May 1 of the spring session,

if the student is to be permitted to take her examinations and receive credit for the session's work.

FEES OF STATE SCHOLARS

Each State Scholar should file at the office of the Bursar *on the day of registration* the notice which she has received from Albany stating that a State Scholarship has been awarded to her. On the basis of this official notice she is entitled to a credit of \$50 a session.

A State Scholarship Certificate for each of these students is then sent from Albany to the Bursar, who records all necessary information and forwards the certificate to its owner. This certificate need not be presented again at the Bursar's office.

SAFEKEEPING OF STUDENTS' FUNDS

For the convenience and protection of students while in residence at the University, the Bursar of Columbia University in Room 310 University Hall is prepared to receive funds for safekeeping, subject to the printed regulations, copies of which may be obtained at his office upon request. There is no charge for this service.

Personal checks will not be cashed by the University or credit allowed until the money has actually been received from the bank on which the check is drawn. However, checks, drafts, and money orders may be deposited for collection. Students should provide themselves with travelers' checks to cover their immediate expenses.

RESIDENCE HALL FEES

Deposit	\$ 15.00
Payable in advance to secure assignment of room. One half of this deposit is credited each session on payment of rent. The deposit is forfeited if the applicant withdraws after September 1, or, in the case of an applicant entering at the beginning of the spring session, after January 15.	
Board	300.00
Payable in two equal installments in advance, on or before taking possession of room, and on February 2 ¹	
Rent	300.00
Payable in two equal installments in advance, on or before taking possession of room, and on February 2 ¹	
<i>Various scholarships ranging in value from \$50.00 to \$700.00 are available for students in need of assistance (see page 41).</i>	

Rebates. — In case of withdrawal of a student from the residence halls, there is no rebate for the rent of the room. A rebate for board is reckoned from the Saturday after the withdrawal.

¹ In special cases, upon application to the Bursar, the payment of one half the rent and board for a session may be deferred until mid-term — November 7 or March 13.

ESTIMATED NECESSARY EXPENSES

For each academic year:

Registration fee	\$ 20.00
Tuition fee	380.00
Student activities fee	7.00
Textbooks (estimated minimum)	20.00
	<hr/>
	\$ 427.00

And for resident students:

Board and room	600.00
Student government dues	1.50
	<hr/>
	\$1028.50

For other items:

Gymnasium costume, approximately	\$ 8.50
Final examination for degree	20.00

THE PROGRAM OF STUDIES

Upon satisfactory completion of a program arranged according to the regulations described below (pages 29-31), the student is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Diplomas are issued only at Commencement and in February and in October upon the completion of the requirements for the degree.

The requirement for graduation is 120 points, exclusive of the prescribed work in English D and in physical education. The term point usually signifies the satisfactory completion of work requiring attendance at class, one hour, or in the laboratory, two hours, a week during a winter or spring session.

I. Program of studies for the degree of Bachelor of Arts

In constructing the present curriculum the Faculty was guided by the following general principles:

1. Each student should possess certain fundamental tools, useful for successful work in any field — that is, a command of written and spoken English, the ability to read at sight with ease at least one foreign language, a healthy body and a knowledge of hygiene.
2. Beyond those needed to give these fundamental tools it is not desirable to prescribe any specific courses.
3. Each student should be required to concentrate her work sufficiently to gain a fairly thorough knowledge of one subject.
4. Each student should be required to distribute her work sufficiently to gain some insight into the other main divisions of human thought.

To carry out these general principles, the following specific requirements and regulations were adopted:

Specific prescriptions

English A	6 points
English D1-D2	no points
Hygiene A1-A2	2 points

Physical Education A, B, C and D.

Ability to read at sight with ease one of the following languages: French, or German, or Greek, or Italian, or Latin, or Spanish. This requirement should be satisfied as early as possible in the college course.

All other work is elective but must include

A major subject of	28 points
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The major must be comprised of work of not less than grade C in some one subject in some one department. It must meet the requirements laid down by the department concerned and announced at the head of the departmental statements on pages 57 ff.

Courses amounting to not less than	14 points
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from *each* of the following groups other than the one in which the major lies, subject to the following restrictions:

- (a) Group I, the 14 points may include (1) not more than one elementary course in ancient foreign languages and (2) no first-year course in modern foreign languages.
- (b) Group II, 8 of the 14 points must be in one of the following laboratory sciences: botany, chemistry, geology, physics, experimental psychology, zoölogy.
- (c) Group III, all candidates for the degree, whatever their major, must take at least 6 points of history.

Group I. Languages, Literatures and other Fine Arts:

Ancient Art, Anthropology (Courses 5, 6, 7, 8, 9, 10, 107, 108), Classical Literatures (in translation), Comparative Linguistics, Comparative Literature, English, Esthetics (Philosophy 41-42, 45, 46, 53, 54, 145-146), Fine Arts, French, German, Greek, Italian, Latin, Music, Romance Philology, Spanish.

Group II. Mathematics and Natural Sciences:

Anthropology (Courses 3, 4), Astronomy, Botany, Chemistry, Geography, Geology, Logic (Philosophy 3-4), Mathematics, Mineralogy, Physics, Psychology (Courses 7-8, 19, 22, 23, 24, 47, 48, 117, 119), Statistics (Economics 18), Zoölogy.

Group III. Social Sciences:

Anthropology (Courses 1, 2, 13, 14, 51, 52), Archaeology, Classical Civilization, Economics, Geography, Government, History, Philosophy, Psychology (Courses 1, 27, 28, 37), Religion, Sociology, Statistics (Economics 17).

II. Program of studies for the degree of Bachelor of Arts with the certificate in science or mathematics

Candidates for the degree of Bachelor of Arts who desire to specialize in the natural sciences or in mathematics may elect the foregoing program of studies with the modifications given below. For the satisfactory completion of the

specified requirements they will receive on graduation a certificate which will indicate the nature of the program of studies pursued.

This program of studies is the same as the foregoing program, except in the following specific respects:

A major subject of at least 28 points of not less than grade C in one of the following natural sciences: astronomy, botany, chemistry, geography, geology, mineralogy, physics, experimental psychology and zoölogy, or in mathematics, and

Two minor subjects of at least 12 points each, one of which must be allied to the major, both to be chosen from the foregoing list. As a minor, geography, geology and mineralogy may count as one subject. Anthropology may also be taken as a minor subject.

Additional grouped work in science, or in mathematics, or in science and mathematics, so as to make a total of at least 60 points in science, or in science and mathematics.

DEGREE WITH HONORS

Degrees with honors will be awarded to students who have completed the work for the degree with highest distinction (*summa cum laude*), with high distinction (*magna cum laude*) and with distinction (*cum laude*).

PROGRAM FOR STUDENTS ADMITTED BY TRANSFER FROM OTHER COLLEGES

Students transferring to Barnard College with sufficiently good records from other colleges will be held to the requirements for the degree outlined on pages 29–31. They shall not be exempt from the major or the laboratory science or the history requirement or the language requirement. Such students, if sufficiently able, are also eligible for transfer to professional schools under the regulations described below.

The administration of the foregoing provision will be in accordance with the following principles and rules:

1. Such students should have completed at entrance or at other colleges the equivalent of the entrance requirements to Barnard College, as may be determined by the University Committee on Admissions.

2. In general, students who have been accepted by the Committee on Admissions for entrance by transfer to Barnard College will be admitted to the class to which their previous entrance and college records entitle them. The Committee on Transfers will determine, in conference with the student, in view of her previous academic record, her experience and maturity, her intellectual interests and professional plans, the program of work that she shall take. In certain cases a year of probation may be required before the status of the student is exactly fixed.

PREPARATION FOR PROFESSIONAL SCHOOLS

Students who intend to transfer to professional schools are of two classes, those who leave Barnard at the end of the sophomore year, without candidacy

for the Bachelor of Arts degree, and those who at the end of the junior year wish to take advantage of the 'combined course,' counting the first year of an approved professional school in place of the senior year at Barnard.

Students intending to transfer to professional schools without candidacy for the degree of Bachelor of Arts are required to take English A and D, Hygiene A, physical education throughout their stay at Barnard, and such other courses as are appropriate in preparation for the professional school to which the transfer is to be made. (See Architecture, Business, Law, Medicine, Nursing, Teaching, pages 33 ff.)

Students with a good record may, by special permission of the Committee on Instruction, count the first year of an approved professional school in place of the senior year at Barnard. To be eligible for this 'combined course' a student must complete at Barnard, before transferring to the professional school, 90 points of academic work including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction.

Students transferring to Barnard from other institutions will be granted this privilege of a 'combined course' only if they have an unusually good record, and in no case will the permission of the Committee on Instruction be given until after the student has completed at least one full year of work in Barnard College. (See Architecture, Business, Law, Medicine, pages 33 ff.)

COURSES IN THE GRADUATE FACULTIES OPEN TO BARNARD STUDENTS

Certain graduate courses in Columbia University under the Faculties of Political Science, Philosophy, and Pure Science which are listed in the Barnard Announcement are open, with the consent of the department concerned and the Committee on Instruction, to specially qualified seniors. In these courses special arrangements are made for the supervision of the work of undergraduates. Since graduate work is on an entirely different basis of credit from undergraduate work, it is rarely possible for a student in Barnard College to take any graduate courses for which these special arrangements have not been made. Seniors of unusual ability may, however, be permitted in special cases to elect not more than two graduate courses.

Graduate courses, when approved by the Committee on Instruction, may be counted by an undergraduate toward the Bachelor's degree. But any undergraduate student of high standing in the regular course in Barnard College who, in the final session of her candidacy for a Bachelor's degree, is within 12 points of that degree may, with the approval of the appropriate Deans, register for graduate courses with a view to offering such courses in fulfillment of the requirements for residence for a higher degree, provided, however, that she shall not receive graduate credit in excess of the difference between 15 points and the number of points that she needed to fulfill the requirements for her Bachelor's degree at the beginning of such session.

For full information concerning the content of the courses, students are referred to the appropriate University announcements mentioned at the end of the departmental statements given below.

**PROFESSIONAL SCHOOLS FOR WHICH BARNARD STUDENTS
MAY PREPARE****Architecture**

The School of Architecture of Columbia University offers a four-year course of study leading to the degree of Bachelor of Architecture.

The minimum requirement for admission consists of one year of academic work in a college recognized by Columbia University, amounting to at least 30 points' credit, including English, speech, one modern foreign language (preferably French or German), hygiene, and one year of mathematics based on the mathematics courses offered for entrance to college. Points in physical education do not count toward this total.

Whereas the minimum may be accepted, three years of college work is strongly recommended, as it is advisable for students intending to apply for entrance to the School of Architecture to have as broad a preparation as possible. It is also advantageous for students to have had at least one year of free-hand drawing.

Business

The School of Business of Columbia University offers a two-year course of study leading to the degree of Bachelor of Science.

It requires for admission two years' satisfactory work in a college of recognized standing, amounting to at least 60 points' credit (exclusive of physical education and speech), including two years of English, two years of French, German, Spanish, or Italian, hygiene, and one year of economics. A year of work in economic geography is also recommended before transfer.

Dental and Oral Surgery

The School of Dental and Oral Surgery of Columbia University offers a four-year course of study leading to the degree of Doctor of Dental Surgery.

The minimum requirement for admission is the successful completion of three years' work at an acceptable college of arts and sciences, including one year of English, one year of inorganic chemistry, one half year of qualitative analysis, one half year of organic chemistry, one year of physics, one year of zoölogy, hygiene, and speech. A dental aptitude test to determine manual dexterity is also required.

Only a limited number of students can be accommodated, and the entire pre-dental record of each student is carefully examined in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected.

Journalism

The Graduate School of Journalism of Columbia University offers a one-year course leading to the degree of Master of Science.

A Bachelor's degree from an accredited college is required for admission. Undergraduate work should, wherever possible, include courses in English com-

position, government of the United States, history since 1914, economics and sociology. Ability to use a typewriter is required. Some proficiency in short-hand is recommended.

Applicants with journalism experience, on press boards, campus newspapers and magazines, or who have had positions in or related to journalism, should present examples of their work in these fields.

Women will be admitted to the School in numbers proportionate to the opportunities which may be expected to develop for them in the future in professional work. Though the employment of graduates is not assured by the School, the employment of women who have completed this training in recent years indicates that journalism is an expanding profession for qualified women.

Law

The School of Law of Columbia University offers a three-year course of study leading to the degree of Bachelor of Laws.

It requires as a minimum for admission three years of college work of good grade, amounting to at least 90 points (exclusive of physical education and speech), and including English, hygiene, satisfactory courses in economics, English and American history, and government, including American government. After the completion of these requirements, a student may be recommended by the Faculty of Barnard College for transfer to the School of Law without further examination, except a capacity test.

The foregoing statement represents the minimum requirement for admission, but the complete college course of four years is considered the most desirable preparation. Only a limited number of exceptionally qualified students will be admitted, and the selection will be based on each candidate's capacity for law, as determined by the special capacity test, and her entire college record.

Library Service

The School of Library Service of Columbia University offers a one-year course of study leading to the degree of Bachelor of Science.

For admission to the School as a candidate for the degree an applicant must have an approved Bachelor's degree in liberal arts subjects from a recognized college or university. A reading knowledge of French or German is required for matriculation and a knowledge of both languages is strongly advised.

Evidence of fitness for library work is required of all candidates.

Medicine

The College of Physicians and Surgeons of Columbia University offers a four-year course of study leading to the degree of Doctor of Medicine.

The minimum requirement for admission is three years' work of good grade at an approved college of arts and sciences, amounting to at least 90 points. For Barnard students this must include hygiene, speech, and physical education, as well as the requirements prescribed by the New York Board of Regents for a qualifying certificate, i.e., one year of English, two years of chemistry, including

at least one half year of organic chemistry, one year of physics, and one year of biology. After the completion of these requirements a student may be recommended by the Faculty of Barnard College for transfer to the College of Physicians and Surgeons without further examination.

While the foregoing statement represents the minimum requirement for admission, the complete college course of four years is considered the most desirable preparation. Very few students with less than four years' pre-medical training can be admitted, for the reason that there is an excess of applicants who have already received the Bachelor's degree. Only a limited number of students will be admitted, and the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged most capable of meeting the exacting demands of the course and the profession may be selected.

Nursing

The School of Nursing of the Presbyterian Hospital under the auspices of the College of Physicians and Surgeons offers a three-year course leading to the degree of Bachelor of Science and a diploma in nursing.

It requires for admission a minimum of two years of liberal arts work of good grade in a college approved by Columbia University and the New York State Education Department. The 60 points should include chemistry, biology, psychology, and sociology. Acceptance is based on grounds of character and health as well as on the fulfillment of the academic requirements.

Students who hold an acceptable degree may obtain permission to complete the course in two years and three months.

Social Work

The New York School of Social Work, affiliated with Columbia University, offers a two-year course of study leading to the degree of Master of Science. The School prepares students for various types of public welfare positions and social work positions under both private and public auspices. Field work under the supervision of private and public agencies forms a considerable part of the curriculum.

A Bachelor's degree is required for admission. Students planning to enter the School are urged to include in their undergraduate curriculum some of the following courses: anthropology, economics, education (non-technical courses), history, political science, philosophy, psychology, sociology, botany, biology, physiology, zoölogy. At least 20 semester credits in social and biological sciences are pre-requisite to admission.

The Faculty of the New York School of Social Work will be glad to discuss with undergraduates the professional curriculum and opportunities in social work.

Teaching

Teachers College of Columbia University and Barnard College coöperate in offering to students preparation for teaching elementary and high school subjects. In most states at least three years of special college work with certain professional

courses are required of candidates for certificates to teach elementary subjects, and a Bachelor's degree and certain professional courses are required of all candidates applying for certificates to teach high school subjects. There is an increasing trend toward a longer period of preparation, as indicated by the recent statement from the New York State Education Department that a Bachelor's degree will be required of all candidates applying for the New York State teaching certificate in elementary subjects, and a Master's degree or its equivalent will be required of all candidates applying for the New York State teaching certificate in high school subjects after January 1, 1943.

While it is possible for students to satisfy certain states' requirements during their undergraduate course, usually with some summer work in addition to the regular college program, it is advantageous for Barnard students to plan for a fifth year in coöperation with Teachers College. This course covers the last two undergraduate years and one graduate year and is open to specially qualified students. The undergraduate years will include elementary psychology and two 6-point courses given at Teachers College for juniors and seniors of Barnard College. The fifth year will be spent mainly at Teachers College. There will be opportunity for graduate study in subjects of the major interests as well as for observation and practice teaching.

Since only specially qualified students will be admitted to this five-year course, application should be made to the Associate Dean of Barnard College early in the sophomore year.

Theology

Sacred Music

The Union Theological Seminary offers a three-year course of study leading to the degree of Bachelor of Divinity, and a course leading to the degree of Master of Arts, granted by Columbia University on recommendation of the Faculty of the Seminary. The Seminary's School of Sacred Music offers a two-year course for the degree of Master of Sacred Music.

For admission to the Seminary a student must be a graduate of a college of recognized standing. Students who plan to take the full theological course for the Bachelor of Divinity degree are advised to give particular attention in college to the study of philosophy, especially the history of philosophy, and to include in their program courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.

Candidates for the degree of Master of Arts in the field of Christian education are expected to have some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

For admission to candidacy for the degree of Sacred Music a student must be a graduate of an approved college or school of music. Whether holding the degree of B.A. or B.Mus. applicants must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

Accommodations at the Seminary are limited, making it necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry.

GENERAL REGULATIONS REGARDING THE PROGRAM OF STUDIES, EXAMINATIONS IN COURSE, CREDIT AND ADVANCEMENT

Election of courses. — Before final choice of elective studies, all students should consult their advisers (see page 41), the Committee on Instruction and, in case of any doubt, the instructors in charge of particular courses as well. Electives must be chosen on some consistent plan. Conflicts between courses falling at the same hours are to be avoided by careful study of the scheme of attendance at the end of this volume, which has been drawn up with a view to making possible for everyone the selection of a reasonable number of harmonious elective courses that shall not conflict in hours with each other or with prescribed courses. It often happens that some of the courses of one department form valuable supplements to certain courses of another, so that combinations of work under two or more departments are very desirable. In all such cases the best selections can be made only after consultation with officers of one or more of the departments concerned. This applies particularly to the major subject (see page 30).

The following regulations should also be borne in mind:

1. No courses other than those specified in the Announcement may be taken except by students specially qualified to pursue them with advantage and with the consent of the Committee on Instruction.
2. No combination of courses amounting to less than 12 or more than 16 points may be made in any winter or in any spring session without the consent of the Committee on Instruction.
3. No credit will be given for a one-hour course, unless it is taken in connection with and as a supplement to a cognate course.
4. No more than four hours of class work, or its equivalent in laboratory work, or seven hours of class work and laboratory work combined, may be taken on the same day.
5. Tuesday at 1:10 P.M. is the Assembly hour. Academic meetings at which attendance is required are often held at this time, and all students are requested to keep it free for this purpose.
6. Students entering with advanced standing from other colleges will be required to take 12 points of their major at Barnard.
7. Of the points required for the degree, at least 30 must be taken while the student is registered in Barnard College, of which 30 points at least half should be taken during the senior year.
8. The election of courses under the Graduate Faculties of Political Science, Philosophy, and Pure Science is restricted to specially qualified seniors and requires the consent of the head of the department concerned at Barnard, and of the Committee on Instruction. (For further details see page 32.)

9. The election of specific courses in a summer session at Columbia University or elsewhere must be approved by the Committee on Instruction of Barnard College. Except by special permission of the Committee on Instruction, granted for reasons of weight, no student whose average standing lies below 2.50 (see page 40) during the preceding academic year will be allowed to count more than 6 points of work taken in a summer session. In no case may more than three courses or 8 points of work be counted in a summer session in any one year. No summer session course that is passed with a grade below C will be credited toward a Barnard degree.

If a student has taken work in a summer session without the previous approval of the Committee on Instruction, she should submit a report of her summer work within a month of her return to college, either in the winter or in the spring session. Otherwise no credit toward the Barnard degree will be allowed for the work that was taken.

10. Specific courses in University Extension may be credited toward the Bachelor's degree under the following regulations:

(a) The election of extension courses must be approved by the Committee on Instruction and by the Director of University Extension.

(b) Students will not be allowed to exceed a total of 16 points, including the points of extension courses, at one time, save with the special permission of the Committee on Instruction, for reasons of weight.

(c) Students desiring to count these courses toward the degree must obtain in them a grade of at least C.

(d) Courses that are not taken for credit toward the Barnard degree will not be covered by the regular tuition fees but must be paid for over and above those fees.

Time limit for counting work toward the degree. — All requirements for a degree must be fulfilled by the candidate within six years from the time of her first matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from similar matriculation as a sophomore; within three years from similar matriculation as a junior; and within one and a half years from similar matriculation as a senior. If the candidate fails to satisfy the requirements within the time here specified, she is to lose credit for all the points gained by her toward the degree unless, in individual cases, the Faculty shall otherwise direct.

Major examination. — Beginning in 1943 a major examination at the end of the senior year will be required of all students whose majors lie in subjects in Groups I and III (see page 30). This examination is designed to test the candidate's command of the subject, or of some definite part of the subject, as a unified, coherent whole.

The foreign language requirement. — The foreign language tests are held in January, in May, and in September, and are open to students according to regulations announced from time to time by the Committee on Instruction. If a student who entered Barnard as a freshman or a sophomore, and who in February or in September is within a year and a summer session (40 to 42 points) of completing the work for her degree, fails to pass the mid-year or September test she will be suspended until the foreign language requirement is satisfied unless, by special ruling, the Committee on Instruction permits her to remain for one

session on probation with a limited program, and the suspension of credit until the test is passed.

A transfer student will be urged to try the test on arrival. If a student who entered Barnard by transfer as a junior or senior, and at mid-year or in September is within a year and a summer session (40 to 42 points) of completing the work for her degree fails to pass, she will be ranked as unclassified with no promise as to when she may expect to complete the requirements for the degree.

Entering freshmen who are well grounded in their foreign language are advised to try the test on arrival.

Change of program. — No change of program, by adding or by dropping a course, or by changing sections or the point value of a course, may be made by a student without the written consent of the Committee on Instruction. Except on the initiative of the departments or of the Committee on Instruction, such change will not be allowed *after the first Monday after the opening of either the winter or the spring session.* (See also paragraph on fees, page 26.)

Absences. — All students are expected to attend regularly and promptly all the exercises in the courses for which they are registered. Any considerable amount of absence or tardiness will result in the lowering of a student's mark or the loss of one or more points of credit. At the end of each session each student may file in the Registrar's office, on blanks provided for that purpose, a list of her absences and tardinesses with the reasons therefor. After considering these excuses and the reports from the instructors, the Committee on Instruction will adjust marks and credits.

Stated examinations. — Two series of examinations are held every year, one in January and the other in May. These are the only stated examinations. In 1942, the mid-year examinations begin on Monday, January 19, the final examinations on Monday, May 18.

Special examinations. — Special examinations are held as follows: in the week beginning on the second Monday of the spring session of each year and within the two weeks preceding the opening of the College in the fall.

Such examinations must be taken in one of the three periods for special or deficiency examinations immediately following the stated examination that was missed. They are open, by permission of the Committee on Instruction, to students who have been absent, for imperative reasons, from the stated examination in any course, provided their term work has been satisfactory.

In all cases application for permission to take a special examination must be made in writing.

For each and every examination taken at any time other than the stated examination period immediately following the conclusion of the course involved, a fee must be paid before the student is admitted to the examination (see page 27).

Grades and credit. — The student's performance in a course is rated according to the following grades: A, excellent; B, good; C, fair; D, poor; P, passed without specific grade; F, failure. The mark *Incomplete* is given only when the student has obtained, in advance, the permission of the instructor to postpone for a short time the submission of certain outstanding term work which must be made up before a specific grade can be reported. Under the regulations of the Faculty, outstanding work that is not completed within three weeks after the end of the session automatically becomes an F.

Standing in college is determined by a valuation of each academic point according to the mark received. Each point with a mark of A counts 4; B, 3; C, 2; D, 1; F (or *absent* or *incomplete* until satisfied), 0. The average mark per point constitutes the student's rating.

No student may count for promotion from any class to the next higher class more than 6 points of D work or may be credited with more than 6 points of D work during her senior year. In case more than four years is required for her degree, not more than 24 points of D work altogether may count for the degree. Of several courses in which a student is marked D she may choose the ones to be counted. No work of grade D may count in the major of 28 points.

At the end of the sophomore year especially, the records of all students will be carefully scrutinized and only those who have attained at Barnard College at least a C average (2.0 rating) or who have shown promise of future development will be permitted to continue in college and pursue the more advanced specialized study of the junior and senior years.

In order to be recommended for the degree, each student must attain at Barnard College an average of C or above for the entire course and for the senior year.

If a student fails to obtain a C average at the end of four years and thus does not receive a degree at this time, the Committee on Instruction will consider her case and determine whether or not she may in future continue her candidacy for the degree and, if so, under what conditions.

Dean's list. — At the end of each academic year except the senior year there will be compiled a Dean's list to consist of students who, in the opinion of the Committee on Honors, deserve special mention for scholarly excellence during the past year. This will be announced at the opening of the following academic year.

Additional credit for high standing. — At the end of the winter and of the spring session, when all the reports are filed in the Registrar's office, additional credit for high standing is given as follows:

The mark A in courses aggregating 6 points of work (no course to be counted twice) entitles the student to one point of extra credit, provided she has satisfactorily completed all the work of the session and has not fallen below the mark B in any course.

Classification of students. — Matriculated students whose record is satisfactory to the Committee on Instruction are classified as follows:

Freshmen, those who have completed less than 24 points of academic work.

Sophomores, those who have completed 24 points.

Juniors, those who have completed 54 points.

Seniors, those who have completed 86 points.

Unclassified students, those who have not been allowed definite credits on transfer from other institutions or those who are electing less than 10 points a term.

In all cases the requirements for promotion must be met in full before the beginning of the winter session.

A student who fails to meet the requirements for advancement from one class to another may, with the consent of the Committee on Instruction, remain in college and repeat the course or courses in which her deficiency exists, or, in

the case of elective courses, other courses equivalent thereto in time. She may not, however, register as a nonmatriculated special student.

Should a student fail of advancement in two successive years, she shall be permanently dismissed from the College, unless, for reasons of weight, the Committee on Instruction shall otherwise determine.

ADVICE TO STUDENTS

The Dean is always glad to confer with a student regarding any matters that may be of interest to her. Individual instructors may also be consulted at any time by the student regarding her work in their classes.

Before planning her program for the coming year, every student should consult a member of the teaching staff, according to detailed regulations to be announced from time to time by the Committee on Instruction.

Not later than the spring session of her sophomore year, a student should consult the Occupation Bureau regarding opportunities in different occupations which may interest her and the prerequisites thereto.

SCHOLARSHIPS, GRANTS-IN-AID, LOANS

Purpose. — The College desires that no student of exceptional ability shall be kept away from Barnard because her family has only moderate means. To aid students financially, there are Scholarships, Grants-in-aid, a Loan Fund (see page 47) and provisions in the Occupation Bureau (see page 53) for enabling girls to earn a little money toward their personal expenses.

Scholarships. — Scholarships are awarded annually on a competitive basis by the Faculty Committee on Scholarships to full-time students of high scholarly ability, excellent character, and promise of future usefulness, who are in need of aid.

For resident students, — that is, those who live in Brooks or Hewitt Halls — they range in value from \$150 to \$700 a year.

For students who do not live at the College, they range in value from \$75 to \$300, except for one New York City scholarship valued at \$400 every third year.

If a student fail to maintain an average of at least B in her work, or if for any other reason she show herself an unsatisfactory scholar, she may forfeit her scholarship and be ineligible for reëlection the following term.

Grants-in-aid. — Grants-in-aid are awarded by the Faculty Committee on Scholarships to deserving and needy students to help them to enter or to remain in college. No student whose record falls below an average of C will ordinarily be considered eligible for such a grant.

Residence grants. — Residence grants are awarded by the Faculty Committee on Scholarships to enable students to live in the residence halls. They range in value from \$25 to \$300.

Applications from students in college. — On or before the first of March of each year all applications for scholarships, grants-in-aid, and residence grants must be filed at the Dean's office upon special blanks to be obtained there.

Applications from entering students. — On or before the first of March ap-

plications for scholarships should be in the hands of the Committee on Admissions. Blanks for this purpose may be obtained in the Office of Admissions.

Applicants are required to take the scholarship examinations held by the College Entrance Examination Board in April, unless they are applying for admission with advanced standing from another institution.

Except for a very few special scholarships, students should not apply for scholarships by name, but should merely indicate the minimum sum needed.

Scholarship awards. — Applicants will be informed by the Chairman of the Committee on Scholarships as soon as awards have been made. Applicants receiving awards are requested to inform the Dean's office *immediately*, in writing, if they do not intend to use the funds awarded.

Holders of scholarships, grants-in-aid, and residence grants are requested to file with the Bursar *on the day of registration* a scholarship certificate to be obtained from the Secretary to the Dean.

COMPETITIVE ENTRANCE SCHOLARSHIPS

Brooklyn Scholarships (\$150 each). — Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students resident in Brooklyn and prepared in a Brooklyn school.

Carpentier Residence Scholarships (\$400 to \$700 each). — Founded in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

Lucille Pulitzer Scholarships (\$300 to \$700 each). — Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer.

Three are restricted to students from the City of New York; eight are for resident students.

Jessie Kaufmann Scholarship. — The income of a fund of \$4,000. Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

Martha T. Fiske Scholarship. — The income of a fund of \$5,000. Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserving candidate not a resident of New York City or its suburbs.

Edna Chapin Close Scholarship. — Established by the Barnard College Club of Westchester in 1937, in memory of Edna Chapin Close of the Class of 1902. Value \$400. Awarded to an entering freshman from Westchester County, for one year only.

GENERAL SCHOLARSHIPS

Ella Weed Scholarship. — The income of a fund of approximately \$3,600. Originally established in 1895 by the pupils and alumnae of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Com-

mittee of the Board of Trustees of Barnard College during the first five years of its existence.

Veltin School Scholarship. — The income of a fund of \$3,000. Founded in 1905 by the alumnae of Mlle. Veltin's School.

Jennie B. Clarkson Scholarship. — The income of a fund of \$3,000. Founded in 1898 by the late Mrs. W. R. Clarkson.

Emily James Smith Scholarship. — The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College.

Anna E. Barnard Scholarship. — The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

Brearley School Scholarship. — The income of a fund of \$3,000. Founded in 1899 by pupils and former pupils of the Brearley School.

Eliza Taylor Chisholm Memorial Scholarship. — The income of a fund of \$3,000. Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

Graham School Scholarship. — The income of a fund of \$3,000. Founded in 1907 by the Graham Alumnae Association.

Mrs. Donald McLean Scholarship. — The income of a fund of \$3,000. Founded in 1906 by the New York City Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

Emma Herzog Scholarship. — The income of a fund of \$3,000. Founded in 1904 by gifts from residents of Yonkers, N. Y. It is awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school who is entering Barnard College.

Mrs. Henry Clarke Coe Scholarship. — The income of a fund of \$3,600. Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage, and after the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

Eleonora Kinnicutt Scholarship. — The income of a fund of \$5,000. Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1942 and 1945.

Emma A. Tillotson Scholarship. — The income of a fund of \$5,000. Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for

three years, provided the recipient continues to maintain a high rank. It will be awarded in 1943 and 1946.

William Moir Scholarships. — The income of a fund of \$10,000. Founded in 1912 by the late Mrs. William Moir, in memory of her husband.

Mary Barstow Pope Scholarship. — The income of a fund of \$4,000. Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate of Barnard College for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.

Charles E. Bogert Memorial Scholarship, and Anna Shippen Young Bogert Memorial Scholarship. — The income of a fund of \$10,000. Founded in 1913 with a bequest from the late Annie P. Burgess. They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.

Martha Ornstein Brenner Scholarship. — The income of a fund of \$4,000. Founded in 1915 by her friends in memory of Martha Ornstein Brenner, 1899.

Barnard School Alumnae Scholarship. — The income of a fund of \$4,000. Founded in 1916 by the alumnae of the Barnard School for Girls. It may be awarded to a student in any class, preference being given to nominees of the school.

Fanny I. Helmuth Scholarship (at least \$262). — Established on a temporary basis by the Daughters of Holland Dames in honor of Fanny I. Helmuth. It is awarded in conference with a representative of the society to a student of Dutch descent who is in need of aid.

Anna M. Sandham Scholarship. — The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Anna M. Sandham.

Eleanor Butler Sanders Scholarship. — The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Henry M. Sanders.

Scholarship in English. — The income of a fund of \$5,000. Founded in 1920 by an anonymous donor. It is awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who stands out as particularly deserving of aid, the scholarship may be used, at the discretion of the Faculty Committee on Scholarships, to assist a student majoring in some other subject.

Lucille Pulitzer Supplementary Scholarships (\$50 each). — Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy students, and may be used to supplement larger scholarships or themselves combined into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or, in special cases, general outside expenses.

Augusta Larned Scholarship. — The income of a fund of \$10,000. Founded in 1924 with a bequest from the late Augusta Larned.

Mary E. Larkin Joline Scholarship. — With an annual value of \$300. Founded in 1927 with a bequest from the late Mary E. Larkin Joline. It is awarded to a student who is specializing in music.

Charlotte Louise Jackson Scholarship. — The income of a fund of \$5,000. Founded in 1928 with a bequest from the late Fannie A. Jackson. It is awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

Alice Marie-Louise Brett Scholarship. — The income of a fund of \$10,000. Founded in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, of the Class of 1915. It is awarded during her senior year to an able and deserving student specializing in French.

Schmitt-Kanefent Scholarship. — The income of a fund of \$7,000. Founded in 1931 with a bequest from the late Catherine Schmitt.

Helen Elizabeth Vosburgh Scholarship. — The income of a fund of \$5,000. Founded in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh of the Class of 1925. In awarding this scholarship, preference is given to a self-supporting student.

Willina Barrick Memorial Scholarship. — The income of a fund of \$5,000. Founded in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, 1900. It is awarded on the nomination of the Club to a graduate of a Jersey City secondary school entering Barnard College.

Barnard College Club Scholarship. — A residence scholarship with an annual value of \$700, established in 1936 by the Barnard College Club of New York.

Virginia Gildersleeve International Scholarship. — The income of a fund of \$15,100. Founded in 1937 by Mr. Charles R. Crane. It is awarded annually to a foreign student coming to Barnard to study.

Peter C. Ritchie, Jr., Scholarship. — The income of a fund of \$4,400. Founded in 1937 with a bequest from the late Virginia J. Ritchie. It is awarded to a needy student.

Alma Gluck Zimbalist Scholarship. — The income of a fund of \$10,000. Founded in 1940 with a bequest from the late Alma Gluck Zimbalist. It is awarded annually to a student who wishes to major in Political Economics.

Helen Jenkins Geer Scholarship. — The income of a fund of \$5,000. Founded in 1940 by Helen Hartley Geer, Class of 1940, in memory of her mother, Helen Jenkins Geer, Class of 1915. It is awarded annually, after conference with the donor.

Lucretia Perry Osborn Scholarship Fund. — A fund of approximately \$3,700, established in 1940 with gifts from friends, in memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930. The income is to be used to aid one or more needy and deserving students.

SPECIAL FUNDS FOR THE AID OF NEEDY AND DESERVING STUDENTS

Arthur Brooks Fund. — A fund of \$5,000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

Fiske Scholarship Fund. — A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.

George W. Smith Scholarship Fund. — A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

Mary Gertrude Edson Aldrich Scholarship Fund. — A fund of \$1,000, given by Mrs. James Herman Aldrich. The income is used to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

Scholarship Fund. — A fund of approximately \$12,000, established by general subscription through the Scholarship Committee of the Board of Trustees.

Carpentier Scholarship Fund. — A fund of \$200,000, the bequest of the late Horace W. Carpentier. The income remaining after the payment of the Carpentier Residence Scholarships described on page 42 is placed at the disposal of the Dean for distribution in scholarships of varying amounts, according to the needs of deserving students.

Caroline Church Murray Fund. — A fund of \$5,000, established in 1918 by Mr. George Welwood Murray in memory of Caroline Church Murray. The income is placed at the disposal of the Dean to be used in aid of needy and deserving students.

Irma Alexander Goldfrank Fund. — A fund of \$2,105, established in 1919 by the friends of the late Irma Alexander Goldfrank, 1908. The income is placed at the disposal of the Dean to be used in aid of needy and deserving students.

Alumnae Scholarship Fund. — A fund of approximately \$4,400, established by the Class of 1912 at its tenth reunion, and subsequently increased by a legacy from the estate of Julia Ludlow Young, an alumna. The income is to be used to help needy and deserving students.

Thomas F. Clark Students' Loan Fund. — A fund of \$100,000, the bequest of the late Mrs. Fanny Foster Clark. The income is to be used to aid needy and deserving students.

Edna Henry Bennett Memorial Scholarship Fund. — A fund of \$1,640, established in 1927 by friends of the late Edna Henry Bennett, 1915, Lecturer in Zoölogy. The income is to be awarded by the Department of Zoölogy to Barnard students for work at a biological laboratory offering summer courses.

Class of 1919 Decennial Fund. — A fund of \$5,000, established in 1929 as a tenth reunion gift by the Class of 1919, to endow a room in Hewitt Hall for the use of a deserving and needy student.

Class of 1921 Scholarship Fund. — A fund of \$2,500, established in 1931 as a tenth reunion gift by the Class of 1921. The income is to be used to help needy and deserving students.

Eva-Lena Miller Booth Scholarship Fund. — A fund of \$1,000, given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a

memorial to the late Mrs. Eva-Lena Miller Booth. The income is to be used to help needy and deserving students.

Alpha Zeta Club Scholarship Fund. — A fund of \$2,500, established in 1936 by the Alpha Zeta Club. The income is awarded to a member of the graduating class for graduate work or, at the discretion of the Dean, to an undergraduate for undergraduate work.

Ida Blair Memorial Fund. — A fund of \$700, established in 1937 by the Women's Democratic Union, in memory of Ida Blair. The income of the fund is to be used for the purchase, in each year, of books for such student in Barnard College (preferably one studying political science) as shall be designated as deserving by the Dean.

Clara Buttenwieser Unger Memorial Fund. — A fund of \$1,000, established in 1938 by the late Joseph L. Buttenwieser, in memory of his daughter, Clara Buttenwieser Unger, of the Class of 1913. The income of the fund is to be awarded annually to assist through her senior year a student whose subject of major interest is Government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

Edward S. Harkness Scholarship Fund. — A fund of \$100,000, established in 1939 with a gift from the late Edward S. Harkness. The income of the fund is used to aid able and needy students.

Anne Brown Endowment Scholarship Fund. — A fund of approximately \$20,000, given in 1939 by the Anne Brown Alumnae Association and dedicated to the late Anne Brown. The income is used for scholarships for young women of the City of New York who would otherwise be financially unable to attend Barnard.

Fine Arts Scholarship Fund. — A fund of \$3,900, established in 1939. Either the principal or the income may be awarded to students for fine arts travel or study in this country or abroad.

STUDENTS' LOAN FUND

A Students' Loan Fund of \$12,000 is maintained by the Associate Alumnae. From this fund loans are made at a low rate of interest to upper classmen in need of financial assistance for college tuition and residence fees. The maximum amount loaned to any one student is definitely limited. Loans are made on a single semester's basis, and applications must be presented for each semester. The principal and interest are to be paid on a quarterly basis within three years after graduation in the case of loans of \$200 or less and within five years in the case of all larger loans. Inquiries may be made of the Alumnae Secretary in the Associate Alumnae Office, Riverside Building, or addressed to Miss Helen Crosby, Chairman of the Students' Loan Committee, Room 2401, 330 Fourth Avenue, New York, N. Y.

The operation of this fund as a revolving loan fund, as distinct from the special scholarship funds already mentioned, makes it possible to keep the capital in continuous use by successive generations of students. The committee does not deem it advisable to lend a very large amount to any one student, as it has found in its experience over the last few years that repayments prove a burden on the

borrowers, particularly if the time schedule of repayment cannot be maintained and interest accumulates. However, the committee desires to make the fund as helpful as possible and wishes to have students in need of assistance apply to it freely and consult with the committee as to possible methods of meeting their financial difficulties.

GRADUATE FELLOWSHIPS

George Welwood Murray Graduate Fellowship. — The income of a fund of \$15,000. Established by Mr. George Welwood Murray in 1930. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship is to be awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. This fellowship is not to be applied for but is to be awarded each year as soon as possible after the mid-year examinations. Students graduating in February are to be eligible, as well as those graduating in June.

Grace Potter Rice Fellowship. — Established in 1935 by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 until 1934. It is of an annual value of \$600. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. This fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. This fellowship is not to be applied for, but is awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February are eligible, as well as those who are to graduate in June.

Public Service Fellowship. — The income of a fund of \$30,000. Established in 1934 by the Women's Organization for National Prohibition Reform. The holder is to pursue a year of graduate study in one or more of the related fields of History, Economics, Government, and Social Science at any college or university of approved standing. This fellowship is awarded annually by the Faculty of Barnard College to a woman graduate of any approved college or university who has shown special ability in the field of political science and promise of future usefulness in the public service.

Kimball Fellowship. — The income of a fund of \$32,800. Founded in 1938 with a bequest of the late Lilian Emma Kimball. This fellowship is to be awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate study at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty.

The Herbert Maule Richards Fund. — Established by the Barnard Botanical Club, former students, and friends in memory of Professor Richards, an officer of the Department of Botany from 1896 to 1928, and Chairman from 1897 to 1928. The income from this fund will be granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College.

MARGARET MEYER GRADUATE SCHOLARSHIP

An annual graduate scholarship of a value of \$75, established by Mrs. Alfred Meyer in 1923 in memory of Margaret Meyer Cohen of the Class of 1915, awarded annually to a member of the graduating class and providing a course of training in secretarial work.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

Herrman Botanical Prize. — A prize consisting of the income of a fund of \$1,000, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

Kohn Mathematical Prize. — A prize consisting of the income of a fund of \$1,000, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

The Jenny A. Gerard Medal. — The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth in Barnard College who is most proficient in American colonial history.

Speranza Prize in Italian. — A prize consisting of the income of a fund of \$1,000, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard from 1890 until 1911, is awarded annually to a student in Barnard College for excellence in Italian.

von Wahl Prize. — A prize consisting of the income of a fund of \$1,300, founded in 1915 in memory of Constance von Wahl, 1912, President of the Undergraduate Association, is awarded annually to a student for excellence in zoölogy, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

Caroline Gallup Reed Prize. — A prize consisting of the income of a fund of \$1,000, founded in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject

of the origin of Christianity and early church history, is awarded annually to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by May 1. A syllabus of the period to be covered may be obtained from the Chaplain of the University.

Jean Willard Tatlock Memorial Prize. — A prize consisting of the income of a fund of \$1,250, founded in 1917 by her friends in memory of Jean Willard Tatlock, 1895, is awarded annually to the undergraduate student most proficient in Latin.

The Helen Prince Memorial Prize. — A prize consisting of the income of \$1,200, founded in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, of the Class of 1922, is awarded annually to an undergraduate student in Barnard College for excellence in dramatic composition.

Dean Prize in German. — A prize consisting of the income of \$1,000, one-fifth of a fund of \$5,000 established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College, is awarded annually to that member of the senior class at graduation who has throughout her course done the best work in German language and literature.

Frank Gilbert Bryson Memorial Prize. — A prize consisting of the income of a fund of \$3,000, founded in 1931 with a bequest from the late Ella Fitzgerald Bryson, of the Class of 1894, in memory of Frank Gilbert Bryson, is awarded annually to a member of the graduating class who has given conspicuous evidence of unselfishness during her college course.

Mary E. Allison Prize. — A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison in memory of her mother, Mary E. Allison, is awarded annually to a student of general excellence in scholarship.

Estelle M. Allison Prize. — A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, is awarded annually to a student for excellence in literature.

The following prizes of Columbia University are by their terms open to students of Barnard College:

Bennett Prize. — A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Baccalaureate degree who pursue courses amounting to six hours a week in the School of Political Science. The subjects for the essay to be handed in May 1, 1942 are: "The Movement for Change in the Character of the Office of Vice-President of the United States," "National Defense and Civil Rights," "Free Speech in War-time."

The Bunner Medal. — The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a

committee to be appointed by the President. The subject for the essay to be handed in May 1, 1942 is: "Fenimore Cooper and the Rent Laws."

Earle Prize in Classics. — A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It is awarded partly on the basis of a special examination, partly on the basis of consistently good work in the regular Greek and Latin courses. The special examination covers specified portions of Greek and Latin literature, sight reading in Greek and in Latin, and prose composition in Greek and in Latin. The special subjects for 1942 are: 1. Plato, *Republic*. Book I, edited by D. J. Allan; 2. Lucretius, Book V, edition of J. D. Duff.

For the award in 1942, the examination will be held in January. Students are urged to do much of their work for the examination during the preceding summer vacation.

The Caroline Phelps Stokes Prize. — The Caroline Phelps Stokes Prize of \$40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College, or Barnard College, or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. The subjects for the essay to be handed in May 1, 1942 are: 1. "The Proper Scope of Civil Liberties in Relation to Fifth-Column Activities"; 2. "The Conscientious Objector, a Study in Human Rights."

RESIDENCE HALLS

Brooks Hall and Hewitt Hall (see page 17), the residence halls for Barnard College students, will open on Friday, September 19, 1941, and will close at 12 noon Friday, June 5, 1942. Candidates for admission or students who wish to secure accommodations in the halls during the week of the June entrance examinations or the September entrance or deficiency examinations should make arrangements directly with the Assistant to the Dean in charge of Residence Halls, not later than June 1 or September 1, respectively.

Full information in regard to the situation and cost of rooms and the advance deposit is published in a separate pamphlet, to be had on application to the Assistant to the Dean in charge of Residence Halls. All correspondence regarding accommodations in the halls should be addressed to the Assistant to the Dean in charge of Residence Halls, Barnard College, New York, N. Y. All checks and money orders should be made payable to the order of Barnard College. For the residence hall fees see page 28.

The post-office address for resident students is Brooks Hall, 3001 Broadway, New York, N. Y.

For regulations in regard to the residence of students who do not live in Brooks Hall or in Hewitt Hall, see page 17.

The King's Crown Hotel, located at 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University.

HEALTH AND PHYSICAL EDUCATION

The University Medical Officer, Dr. William H. McCastline, the College Physician, Dr. Gulielma F. Alsop, and the Head of the Department of Physical Education, Professor Agnes R. Wayman, by means of lectures, personal advice, and a broad program of activity adapted to the needs and condition of the individual endeavor to promote the health of the students. The sanitation of the College is under their supervision. Assistant physicians, two trained nurses, and six instructors work under their direction.

A physical and medical examination is required of each student upon entrance, at the end of the first year, and just before graduation. A motor capacity test and a swimming test are also given upon entrance. Frequent medical inspections are given each student. These examinations and tests are made the basis for determining the type of physical activity a student should take. Great emphasis is placed upon the teaching and learning of skills which can be used after college. Special remedial and corrective classes as well as rest periods are provided for students requiring special individual attention. When necessary, recommendations are made to the Committee on Instruction regarding the student's academic program. As far as possible the work in the Department of Physical Education is conducted in the open air and the program is planned to meet the problem of individual differences and interests.

In addition to the medical offices, treatment rooms and the offices of the Department of Physical Education, Barnard Hall contains a gymnasium, swimming pool, a room for physical examinations, one for "remedial" work, and one for dancing. The students have also, on Milbank Quadrangle, tennis courts, tenikoit courts, an archery range and a practice field for games. The roof of the building is provided with equipment for "moderate" games for the students physically unable to take part in more strenuous activities. There are three additional tennis courts and golf cages on the Riverside Quadrangle. A rest room is reserved for the use of the students.

An all-year-round camp is maintained in Westchester Co., near Ossining, N. Y., on a 17-acre plot of wooded land. This camp was the gift of the Alumnae in 1933. It is administered by a committee representing the Athletic Association, the Department of Physical Education, the Academic Faculty, and the Alumnae. It furnishes an ideal opportunity for recreation and activity in the open as well as for the practice and learning of camp crafts.

Much stress is laid upon the development and training of student leaders, and ample opportunity is offered for students to assume responsibilities in connection with the work of the department, as well as that of the Athletic Association.

THE UNIVERSITY LIBRARY

The general Library of the University contains about 1,715,000 volumes, exclusive of unbound pamphlets and doctoral dissertations. The various departments of instruction have special libraries in connection with their lecture rooms and laboratories. The Avery Architectural Library, the Law Library, the Ella Weed Library of Barnard College, the Teachers College Library, and the

libraries of the College of Physicians and Surgeons and the College of Pharmacy are all available to students of the University.

For the convenience of the undergraduates of Barnard College there is maintained in the Ella Weed Library in Barnard Hall a carefully selected collection of reference books of about 59,132 volumes.

THE UNIVERSITY BOOKSTORE

The official University Bookstore is situated in the Journalism Building, with entrances at the southeast corner of 116th Street and Broadway, and from South Quadrangle between Furnald Hall and Journalism. Books and other supplies are sold at discounts from the usual prices. The store is open on week-days from 8:30 A.M. to 8:00 P.M.; Saturdays, 8:30 A.M. to 6 P.M.; during the first days of each session, until 10 P.M. The store maintains a theater and concert ticket service, a travel bureau, telegraph agency, and other services with substantial savings to Columbia students. Students having deposit accounts with the University may also make withdrawals at the bookstore.

Branches of the University Bookstore are maintained in Avery Hall, the McMillin Theater lobby, and at the College of Physicians and Surgeons.

ASSEMBLIES

University and College assemblies and other academic meetings at which attendance is required are held on Tuesday at 1:10 o'clock. Students must keep this hour free from other engagements.

ST. PAUL'S CHAPEL

Services are held in the University Chapel, St. Paul's, every day, except Saturday, from 12 to 12:20. On Sunday the service is at 11 A.M. The aim of the Chapel is to provide suitable expression for the religious life and to give due place for its cultivation and influence. Attendance is voluntary. A plan of Chapel membership is provided, so that all who wish may have this affiliation and share in the work of the Chapel.

The choir is made up of students, and there is also a Chapel chorus. (See announcement of Department of Music, page 101.)

Besides the Chaplain and Assistant Chaplain, there is a staff of assistants, and there is also an adviser of religious organizations in Barnard College. Counselors for Protestant, Catholic and Jewish students are also associated with the University.

OCCUPATION BUREAU

The Occupation Bureau registers alumnae and students in search of employment or professional advancement, and recommends them to employers who apply to the College. It supports by letters of recommendation applications which qualified candidates may make directly, on their own initiative. In many cases, it can supply introductions to possible employers and suggest lines of approach.

In general, students are not advised to undertake employment during their

first winter or spring session in college, since it is difficult for them to estimate at first the amount of time that can safely be spared from academic work. That is, the College prefers that they do not enter until they have funds available for the first year's expenses. After the first session or first year an able student in good health who does not have to commute, can usually arrange to spare three or four half-days a week, and can perhaps earn a part of her expenses in this way. Some summer work may also be obtained. Most unskilled student work is, however, paid at a low rate. No student who carries a full course can expect to earn all of her expenses, both tuition and living. At the present time opportunities in most types of work are few compared to the number of students in search of them.

Both students and graduates making inquiry of the bureau are given as much information as possible about opportunities in different lines of work and the requirements therefor. For each student a personal record including scholastic achievement, rating in the entrance scholastic aptitude test, extra-curricular interests, vocational interests, and experiences, etc., is kept in this office, in order that the vocational information given may be as helpful as possible. A small library of vocational books, pamphlets, and bibliographies is in the bureau for the use of students, as well as files of civil service examination notices and regulations of state and city education departments. Considerable information in regard to occupational problems, opportunities, and requirements is accumulated through the survey of alumnae occupations and earnings made in connection with the *Alumnae Register* and through the informal individual reports of the many graduates who keep in personal touch with the bureau. The Vocational Advisory Committee of the Associate Alumnae coöperates with the bureau, particularly in planning vocational meetings; and members of the Faculty assist students with information in regard to particular occupations.

The College keeps in touch with the *Coöperative Bureau for Teachers* and the *Institute of Women's Professional Relations*, and utilizes the information collected by them.

STUDENT ORGANIZATIONS

Under the system of self-government in use in the College, the various student organizations are supervised by the Student Council and the Representative Assembly, subject to the general approval of the Faculty. The Student Council also administers the Honor Code, in accordance with which all students on entering Barnard College agree to maintain a high standard of honor in examinations and all phases of college life.

Every regular or unclassified student is a member also of the Undergraduate Association, and as such is at liberty, on payment of the student fee, to take part in all general undergraduate and class functions, to make use of all privileges of the Athletic Association, and to receive the College weekly paper and literary quarterly. Special students may become special and associate members of the Association, if they so desire.

STATISTICS

1889	1894	1899	1904	1909	1914	1919	1924	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
to 1890	1895	1900	1905	1910	1915	1920	1925	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941
9	40	83	62	*123	87	*126	227	189	195	*213	170	*181	*183	*200	*178	*164	172		
Juniors	18	40	71	122	110	190	259	237	220	207	229	209	231	196	179	191	190	1940	1941
Sophomores	..	..	18	37	75	109	191	234	247	264	232	243	226	232	199	188	193	210	206
Freshmen (regular)	4	26	54	110	188	240	224	271	311	291	282	262	241	267	241	257	234	246	212
Unclassified students	..	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	248	248
SPECIAL STUDENTS:																			
Matriculated	..	..	21	27	24	32	39	33	28	26	42	35	32	29	24	28	28	31	27
Nonmatriculated	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Departmental (1889-1896)	22	29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Music Students (1896-1904, 1914-1916)	..	..	..	..	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..
GRADUATE STUDENTS (1890-1900)	22	29	62	27	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD	..	..	19	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
STUDENTS FROM COLUMBIA UNIVERSITY	..	..	119	315	366	535	733	755	980	1104	1054	1044	1043	1002	1026	1027	1033	986	994
STUDENTS FROM TEACHERS COLLEGE	..	..	..	..	..	62	59	28	80	153	234	195	167	143	118	163	171	174	114
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY	..	..	..	..	..	18	77	200	*108	38	50	62	45	46	29	37	21	48	25
TOTAL REGISTRATION	..	..	..	..	..	18	139	259	136	118	203	296	240	213	172	155	184	219	199
DEGREES CONFERRED:	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
A.B.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
B.S. (1909-1918)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
A.M. (1894-1900)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ph.D. (1895-1900)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TOTAL BACHELORS' DEGREES CONFERRED 1893-1940; A.B., 6450; B.S., 77.

* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18	in Education	1924-25	1	in Medicine	1932-33	2	in Journalism,
1914-15	3	in Education	1926-27	2	in Medicine	1937-38	2	in Medicine
1916-17	1	in Journalism	1927-28	1	in Architecture,	1934-35	1	in Law,
1921-22	1	in Journalism	1922-23	1	in Business,	1935-36	1	in Medicine
1922-23	1	in Journalism	1928-29	1	in Architecture,	1939-40	1	in Business,
1923-24	2	in Journalism	1	in Medicine	4	in Law	1	in Law

DEPARTMENTAL STATEMENTS

The following general regulations apply to all courses. The paragraphs on "The Program of Studies," pp. 29-31, should be carefully read.

Prerequisites and credit. — Admission to courses depends upon completion of the prerequisites as stated for each course. When no department is named, it is to be assumed that the reference is to a numbered course in the same department. In all cases the requirements as to prerequisites for any course must be completed before the beginning of the winter or of the spring session in which the course is given. Where no prerequisite is stated and where no limitation is noted, the course may be taken for the degree by any student of the college.

No credit in points will be given for a course which is taken subsequent to the course or courses for which it is in any way a prerequisite, though not formally so announced. Courses must be taken for the credit value announced — for no more or no less.

Designation of courses. — Courses designated by capital letters are prescribed. Elective courses are designated by numbers, odd numbers indicating the winter session, and even numbers the spring session. A compound course is therefore designated by an odd number and the succeeding even number. The numbers from 1 to 99 inclusive are given to courses open only to undergraduates; the numbers from 100 to 199 inclusive are given to courses open to both undergraduates and graduates, the lower numbers in each case being used for the introductory courses.

Indivisible courses are announced with a hyphen between the numerals (*e.g.*, History 1-2) and are regarded as full-year courses of which the first half is always assumed to be prerequisite for admission to the second half, and, except for reasons of weight, and with the written consent of the instructor, no credit will be given for work dropped at the mid-year or before the completion of the course.

Divisible courses are announced with a comma between the numerals (*e.g.*, English 3, 4). Of these courses the first half may be taken separately but is ordinarily assumed to be prerequisite to the second half. *Therefore admission to the second half of a divisible course is granted only when all prerequisites have been met and the written consent of the instructor obtained.*

A Roman numeral in parentheses after the hour indicates the section number (*e.g.*, M., W. and F. at 9 (I), at 10 (II), etc.).

Courses at Columbia University or Teachers College. — Courses marked with an asterisk (*) are given at Columbia University (cf. p. 32).

Courses marked with a dagger (†) are given at Teachers College. *Work at Teachers College mentioned herein may be pursued only by regularly enrolled students of Barnard College and only when counting toward the Barnard College degree. Certain courses not here specified as being open at Teachers College may, through the courtesy of Teachers College and with the consent of the Committee on Instruction, be taken by specially qualified seniors.*

Withdrawal of courses. — When an announced course has not been applied for by at least three candidates for the degree, the instructor may withdraw it.

Textbooks, etc. — For further detailed information in regard to topics, textbooks, or methods in any particular course students are referred to the instructors.

AMERICAN STUDIES

A study of American culture from the aspects of economics, government, history, literature and sociology, under the direction of a committee. Chairman for 1941-42, Dean GILDERSLEEVE; director of studies, Miss DAVIES.

In several departments American Studies may be counted toward the major for a varying number of points, to be determined in each case by the department.

1-2 — American institutions. Full-year course. MEMBERS OF THE DEPARTMENTS OF ECONOMICS AND SOCIAL SCIENCE, ENGLISH, GOVERNMENT AND HISTORY. Miss DAVIES, director. 8 points.

M., W. and F. at 10 and conferences with the director.

Open to juniors and seniors and to specially qualified sophomores on written permission of the committee in charge. Students wishing to apply for admission should consult the director.

The development of American institutions: a study of the state, the family, business enterprise, the school, the church, class structure and the community.

3-4 — Advanced American studies. Full-year course. Miss DAVIES, director. 8 points.

Hours to be arranged.

Preceding or parallel, Course 1-2.

Open to qualified seniors on written permission of the committee in charge. Students wishing to apply for admission to this course in future should consult the director and are advised to include in their programs as many as possible of the following courses: Economics 1-2; English 77-78; Government 1, 2; History 9, 10; Sociology 1-2.

Under the supervision of the director, each student will complete a list of readings planned to supplement and coördinate her knowledge of historical and contemporary America. After she has passed one or more reading examinations, she will select an individual research topic, or field work. Members of one or more of the coöperating departments will preside over regular fortnightly conferences.

ANTHROPOLOGY

A major in anthropology will satisfy the requirement in Group III. Students majoring in this subject must satisfy the 14-point requirement in Group II in subjects other than anthropology. For other students, courses in anthropology will count toward the group requirement as indicated for each course by the statement made in connection with the point value.

A major in Anthropology. — Students majoring in anthropology will be required to take: (a) a major examination in three parts of which one will be in language, the other two according to the work pursued by the individual student and (b) the following courses in

Anthropology — Courses 1, 2 or 3, 4.

Other fields — A reading knowledge of German and courses which will vary with the special interest of the student and must be arranged in consultation with the major department.

1, 2 — Introduction to historical anthropology. Professor REICHARD. 8 points in Group III.

M., W. and F. at 1, and weekly visits to the American Museum of Natural History at hours to be arranged. Students who have taken Course **3, 4** need not repeat the museum work for Course **1, 2** but may satisfy the fourth point by reading and research.

Open to all excepting freshmen. Either half of this course may be taken separately.

The early history of mankind; the antiquity of man; the races of man; the distribution of languages; the independent development in the new world and the old; characterization of the tribes of Africa, Australia, Polynesia, Asia, prehistoric Europe and America.

Courses **1, 2** and **3, 4** are ordinarily given in alternate years.

[3, 4 — Introduction to comparative anthropology.] Professor REICHARD. 8 points in Group II.

Open to all excepting freshmen. Either half of this course may be taken separately.

Problems of race; the growth of civilization; the historical development of industries, forms of art, society and religion. The application of anthropological data to modern social problems; the development of reason; the emotional attitudes determining behavior; the influences of patterns determining lines of thought and action; the individual and society.

Not given in 1941-42.]

5, 6 — Language and thought. Professor REICHARD. 4 points in Group I. W., 2-4.

Specially recommended for foreign students and students interested in language and linguistic problems. Course **5** is prerequisite for Course **6**.

Analysis and comparison of expression in English and one or more Indo-European languages (determined by the languages offered by students applying for the course); relationship between grammar, thought and vocabulary. Special attention to analysis, use and function of vocabulary.

7, 8 — The study of unwritten languages. Professor REICHARD. 4 points in Group I.

Hours to be arranged.

Open only on written permission of the instructor.

Kind of thought and its expression in unwritten languages. Methods of recording, significance of grammatical processes; thought categories; analysis of vocabulary; types and distribution of languages; importance of language research in the social sciences; relationship between language, race and culture.

[9 — Folk music.] Professor HERZOG. 3 points in Group I.

Prerequisite, Music **1** and **1a** except by written permission of the instructor.

The study of folk music in Europe and in America; its relation to balladry, song text and the social setting. Comparisons with occidental, oriental and primitive music. Demonstrations by phonograph records.

Not given in 1941-42.]

[10 — Primitive music.] Professor HERZOG. 3 points in Group I.

Prerequisite, Music **1** and **1a** except by written permission of the instructor.

A discussion of types of primitive music, scales, development of rhythm, musical instruments of different geographical areas, the relation of primitive music to poetry. Demonstrations by phonograph records.

Not given in 1941-42.]

13 (old number **109**) — **Primitive social life.** Professor REICHARD. 3 points in Group III.

M., W. and F. at 11.

Open to juniors, seniors and specially qualified students on written permission of the instructor.

The organization of the family, sib, totem and association; kinship and marriage customs; rank, property, wealth, inheritance, position of women, education; birth, puberty and funeral customs; political organization; the relation of the individual to his environment and comparisons between modern and primitive societies.

14 (old number **110**) — **Man and the supernatural.** Professor REICHARD. 3 points in Group III.

M., W. and F. at 11.

Open to juniors, seniors and specially qualified students on written permission of the instructor.

Primitive religion: questions of taboo, ancestor worship, the fetish, animism, shamanism, the vision, priesthood and witchcraft; deities, sacrifice and ceremonialism. Rationalistic and emotional factors in religious life. The relation of religion to other phases of culture. Theories of origins and development.

51, 52 — **Seminar: problems in anthropology.** Professor REICHARD. 4 points in Group III.

Hours to be arranged.

Open only to students who have had some work in anthropology and with the written permission of the instructor. May be taken two years in succession.

The specific subject for discussion will be determined by the interests of the students applying for the course.

[**107** — **Traditional literature.** Professor REICHARD. 3 points in Group I.]

Open to juniors, seniors and specially qualified students on written permission of the instructor.

Primitive literature in the old and new worlds. Form and content of tradition: the proverb, riddle, folk tale, myth, fairy tale, romance, adventure, novel, verse and song. Types of character and plot. Mythological styles defined.

This course aims to acquaint students with valuable material which is not generally known, rather than to develop mythological theories, although the latter will be briefly discussed.

Not given in 1941-42.]

[**108** — **The art of primitive man.** Professor REICHARD. 3 points in Group I.]

Open to juniors, seniors and specially qualified students on written permission of the instructor.

Control of technic; geometrical and representative design. Art of various groups defined. A study of proportion, of design, line and mass; of rhythm, symmetry and balance; of color. The attitude of the artist and of the social group. Theories of art.

Not given in 1941-42.]

Courses **13, 14** and **107, 108** are ordinarily given in alternate years.

More advanced courses given at Columbia University are described in the Announcement of the Division of Philosophy, Psychology and Anthropology.

ARCHAEOLOGY. See **Fine Arts and Archaeology and Greek and Latin.**

ASTRONOMY

***1-2 — General astronomy.** Full-year introductory course. Professor SCHILT. 6 points.

Tu. and Th. at 11, and quiz and observatory hours, M. at 7:30 P.M. 301 Pupin.

This course leads to an understanding of our knowledge concerning the structure of the solar system and the sidereal universe.

More advanced courses given at Columbia University are described in the Announcement of the Division of Mathematical and Physical Sciences. Students wishing to continue work in astronomy should note the prerequisites for the advanced courses and plan their work accordingly.

BOTANY

A major in Botany. — Students majoring in botany will be required to take in Botany — Courses 51-52; 53-54 or 55-56; and such other courses, subject to the approval of the department, as meet the particular needs and purposes of each student.

Other fields — At least one year's work in chemistry and in zoölogy, a reading knowledge of a modern foreign language, and other courses according to the special needs of the student. Major students are permitted to use a limited space in the greenhouse for practical work in plant propagation.

51-52 — General botany. Full-year course. Professor CAREY, Dr. WHALEY and Miss ——. 8 points.

Lectures: Tu. and Th. at 11. Laboratory (4 hours): Tu. and Th., 9-11 or 2-4, or, if more than 60 students elect the course, M. and W., 1-3.

A portion of the laboratory work is conducted in the greenhouse and occasional field trips are required.

53-54 — General morphology of plants. Full-year course. Professor BOLD. 8 points.

Lectures: Tu. and Th. at 9. Laboratory (4 hours): Tu., 2-4 and Th., 1-3. Occasional field trips required.

Prerequisite, Course **51-52** or the equivalent.

55-56 — Structure and relationships of flowering plants. Full-year course. Professor BOLD. 6 points.

Lecture: 1 hour to be arranged. Laboratory (4 hours): Tu. and Th., 10-12. Occasional field trips required.

Prerequisite, Course **51-52** or the equivalent.

58 — General plant physiology. Mrs. RICHARDS. 5 points.

Lectures: Tu. and Th. at 11. Laboratory (6 hours): Tu., 2-5 and Th., 1-5, in so far as possible.

Prerequisite, Course **51-52**.

59 — Genetics. Dr. WHALEY. 3 points.

Lectures: M. and W. at 3. Laboratory or conference (2 hours) to be arranged.

Prerequisite, a year of college work in either botany or zoölogy except on written permission of the instructor.

124 — Morphogenesis. Dr. WHALEY. 4 points.

Lectures: M. and W. at 3. Laboratory (4 hours) to be arranged.

Prerequisite, at least two years of college work in either botany or zoölogy. Open only on written permission of the instructor.

A general survey of the principles of growth and development, with laboratory projects in experimental plant morphology.

151-152 — Bacteria and ferment fungi. Full-year course. Professor CAREY and Miss _____. 10 points.

Lectures: M. and W. at 1. Laboratory (6 hours): M. and W., 9-12 or 2-5, or hours to be arranged.

Prerequisite, at least a year of college work in either botany or zoölogy. Preceding or parallel, organic chemistry. Open only to properly qualified juniors and seniors.

153 — Physiological anatomy of vascular plants. Mrs. RICHARDS. 5 points.

Lectures: Tu. and Th. at 11. Laboratory (6 hours): Tu., 2-5 and Th., 1-5, in so far as possible.

Prerequisite, Course **53-54** or **55-56**, except on written permission of the instructor.

155 — Phycology. Professor BOLD. 4 points.

Lectures (2 hours) and laboratory (4 hours) to be arranged.

Prerequisite, Courses **51-52** and **53-54** or the equivalent.

An advanced general survey of the freshwater and marine algaee.

156 — Microtechnic and microscopy. Professor BOLD and Dr. WHALEY. 4 points.

Lecture (1 hour) and laboratory (6 hours) to be arranged.

Open only on written permission of the instructor.

The lectures deal with the theories of fixation and staining and the use and optics of the microscope; the laboratory work with methods of microtechnic.

161, 162 — Advanced morphology and physiology. Professors CAREY and BOLD, Mrs. RICHARDS and Dr. WHALEY.

Hours and credit by arrangement.

Work will be planned to suit the needs of the students after consultation with the instructors. This course may be taken in successive years.

CHEMISTRY

A major in Chemistry. — Students majoring in chemistry will be required to take in Chemistry — Courses 5-6, 63, 64, and 41-42. Course 105 is strongly advised.

Other fields — Physics — a year's work in general physics;

Mathematics 7-8 or 1 and 22. A course in calculus is advised;

A reading knowledge of German to be acquired by the beginning of the third year's work.

A reading knowledge of French is also necessary for students specializing in chemistry.

5-6 — General inorganic chemistry. Full-year course. Professors REIMER and KELLER, Mrs. FISHER and Miss MALONEY. 8 points.

Lectures: Tu. and Th. at 10 and a third hour, S. at 10 or F. at 1. The S. hour is intended primarily for freshmen.

Laboratory: For students who are beginning the subject (I) W. or Th., 2-4:30. For students who have had high-school chemistry (II) M. or Tu., 2-4:30. In order to obtain full credit for the course a student who has had high-school chemistry must take laboratory section (II).

Preceding or parallel, Mathematics 7-8 or 1 and 22.

63, 64 — Qualitative and quantitative analysis. Professor KELLER and Dr. BEHRENS. 12 points.

Lectures: M., W. and F. at 10. Laboratory (6 hours): M. and W., 1-4 or Tu., 2-5 and Th., 1-4.

Laboratory deposit, \$10.00 each session.

Prerequisite, Course **5-6**.

65, 66 — Quantitative analysis, advanced course. Professor KELLER and Dr. BEHRENS. 8 points.

Lecture: Th. at 1. Laboratory (6 hours): Tu. and Th., 9-12.

Laboratory deposit, \$12.50 each session.

Prerequisite, Course **63, 64**.

This course is designed to meet the needs of individual students and will be given for a class of five or more.

41-42 — Organic chemistry. Full-year course. Professor REIMER, Dr. DOWNES and Miss TOTA. 12 points.

Lectures: M., W. and F. at 9. Laboratory (a minimum of 6 hours): M. and W., 2-5 or Tu. and Th., 9-12.

Laboratory deposit, \$12.50 each session.

Prerequisite, Course **5-6** and, except on written permission of the department, Course **63, 64**.

42a — Organic chemistry, shorter course. Dr. DOWNES and Miss TOTA. 6 points.

Lectures: M., W. and F. at 9. Laboratory (a minimum of 6 hours): M. and W., 2-5 or Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite, Course **5-6**.

This course will be given for a class of five or more.

105 — Physical chemistry. Professor KELLER and Dr. BEHRENS. 6 points.

Lectures: M., W. and F. at 2. Laboratory (a minimum of 6 hours): Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite, Courses **63, 64; 41-42**; Physics **11-12** and a course in calculus.

106 — Inorganic chemistry, advanced course. Professor KELLER and Dr. BEHRENS. 6 points.

Lectures: M., W. and F. at 10. Laboratory (a minimum of 6 hours): Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite, Courses **63, 64; 41-42**; Physics **11-12**.

145, 146 — Organic chemistry, advanced course. Professor REIMER and Dr. DOWNES. 12 points.

Lectures: M., W. and F. at 11. Laboratory (a minimum of 6 hours): Tu. and Th., 2-5.

Laboratory deposit, \$15.00 each session.

Prerequisite, Courses **5-6; 63, 64; 41-42**.

156 — Physiological chemistry. Dr. DOWNES. 6 points.

Lectures: M., W. and F. at 11. Laboratory (6 hours): Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite: Courses **63, 64, 41-42** and Zoölogy **1-2**. Zoölogy **97-98** is strongly recommended as a parallel course.

157, 158 — Problems in chemistry. Professors REIMER and KELLER, Drs. BEHRENS and DOWNES.

Hours and credit by arrangement.

Laboratory deposit, \$15.00 each session.

Open only to advanced students.

Conferences and laboratory work in advanced organic or in organic chemistry or micro-analysis.

CHINESE. See **Fine Arts and Archaeology, History, and Oriental Civilizations.**

CLASSICAL CIVILIZATION. See **Greek and Latin.**

COMPARATIVE LINGUISTICS

1, 2 — The foundations of language. Professor GRAY. 4 points.

Tu. and Th. at 4. 508 Philosophy (winter session), 511 Philosophy (spring session).

Open to all excepting freshmen.

This course cannot count toward the major in any language.

Winter session: The nature and universal principles of language, its physiological and psychological foundations, and its relations to the various phenomena of human civilization: classification, distribution and characteristics of the types of language.

Spring session: Survey of the Indo-European languages; sound-changes and sound-laws; outlines of inflection and syntax; development of the meaning of words.

The entire course is designed to give students in classics, modern languages and English a general scientific knowledge of the principles common to all languages, particularly as found in the Indo-European group, and thus to aid them in gaining a better understanding of the languages in which they are specializing.

COMPARATIVE LITERATURE¹

7 — Contributions of Spain to world literature. Professor DE ONÍS. 3 points.

Tu. and Th. at 3.

Open to juniors and seniors. Recommended for English majors.

The great masterpieces of Spanish literature, with special attention to the relations of the literature of Spain and Spanish America and that of England and the United States.

[**4 — Goethe in English, with special emphasis on Faust.** Professor BRAUN. 3 points.

Open to juniors and seniors. Recommended for English majors.

The object of this course is to present the poet Goethe as the dominating literary figure of his day in Europe. While the students' first concern will be to become acquainted with as many important and representative works of Goethe as possible, problems of special interest to students of English and of comparative literature will be considered, such as Goethe's relations to English literature and English writers: Shakespeare, Byron, Scott, Carlyle and others.

Students with an adequate reading knowledge of German will be encouraged to read at least some portions of the assigned works in the original.

Not given in 1941-42.]

¹ All courses are conducted in English.

[**5-6 — Italian dramatic literature.** Full-year course. Professors BIGONGIARI and PREZZOLINI and Miss CARBONARA. 6 points.

Open to juniors and seniors.

A study of the history of the Italian drama from the beginning to modern times, with special attention to the periods in which the influence of the Italian theatre made itself felt in Europe at large.

Not given in 1941-42:]

See also English 49, 50, page 71.

ECONOMICS AND SOCIAL SCIENCE

A major in Economics. — Students majoring in economics will be required to take in

Economics — Courses 1-2, 13 or 14, 17 and 27. Beyond these courses the work will vary with the interests of the students. Advanced courses may be taken parallel to Courses 13 or 14 and 17.

Other social sciences — In view of the essential unity of the social sciences every student majoring in economics or in sociology, or in economics and sociology, or in economics and government is required to take courses amounting to 12 points in two of the following departments, as selected in conference with her adviser:

- Anthropology
- Geography
- Government
- History
- Philosophy
- Psychology
- Religion.

Economics majors may elect courses in sociology including Sociology 1-2 in place of courses in any one of the departments listed above.

A major in Sociology. — Students majoring in sociology will be required to take:

Economics 1-2, 17; Sociology 1-2 and either 7, 8 or 31, 32, and beyond these courses which will vary with the interests of the students. With written permission of the department, one or more courses in allied subjects may be offered as part of the required 28 points. Only one introductory course may count toward the major.

Other social sciences — see requirement stated above, except that sociology majors may elect courses in economics, including Economics 1-2, in place of courses in any one of the departments listed above.

A major in Economics and Sociology. — Students majoring in economics and sociology will be required to take:

Economics 1-2; 13 or 14; 17; 27; Sociology 1-2 and either 7, 8 or 31, 32, and at least one of the following courses: Economics 4; 18; 19, 20; 51, 52; Sociology 7, 8; 31, 32; 41, 42; 97, 98; 104, 107. Only one introductory course may count toward the major.

Other social sciences — see requirement stated above.

A major in Economics and Government. — Students majoring in economics and government will be required to take:

Economics 1-2; 13 or 14; 17; 27; Government 1, 2; 3, 4; 25, 26 and at least one additional course in economics or in government.

Other social sciences — see requirement stated above.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in this department or in a combination of subjects involving this department, will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning this examination will be available on application to the department.

See also American Studies, page 57.

ECONOMICS

1-2 — Introductory economics. Professors BAKER and SAULNIER, Drs. ELIOT and MARSH. 6 points.

M., W. and F. at 10 (I), at 2 (II) and Tu. and Th. at 11 and Th. at 1 (III); M., W. and F. at 9 (IV) for freshmen only.

Required for majors and prerequisite for other courses as indicated (except that, by individual arrangement with the department, these requirements for all excepting freshmen may be met by the passing of a special examination). Divisible for freshmen only.

Winter session: A description and analysis of present-day economic life with emphasis on certain basic features: consumption, the pricing of goods and services, production, corporate organization and the security markets, industrial combinations and the concentration of economic power, the monetary and banking system, business cycles and the problem of economic stabilization.

Spring session: Description and analysis of outstanding economic problems: railroads and public utilities, agriculture, foreign trade and foreign exchange, the distribution of income with special emphasis on the wages paid to labor and related problems, labor legislation, labor organization, government expenditures and revenues, proposed basic reforms (coöperation, economic planning, socialism, fascism, communism).

4 — Economic problems of the consumer. Dr. ELIOT. 3 points.

Tu. and Th. at 2.

Comparative study of consumption patterns; possibilities of raising the level of consumption. Economics of fashion, of advertising, of instalment credit, of chain stores, of "fair price" laws, etc. Protection of the consumer by the government, by consumer organizations, etc. The co-operative movement. Field trips to testing laboratories, housing projects, coöperative centers, etc.

Students will work on special topics selected with consideration of their interests and their previous experience and training.

13, 14 — Development of capitalist institutions. Dr. MARSH. 6 points.

Tu. and Th. at 11, and a third hour to be arranged.

Open to all excepting freshmen.

A survey of the development of our present economic society, with special emphasis on western Europe and on the United States.

Winter session: The genesis of capitalist forms in ancient and medieval Europe. Technological and economic changes in the eighteenth and nineteenth centuries. The development of those financial institutions, forms of business enterprise, and techniques of private and governmental control characteristic of capitalism in twentieth-century Europe.

Spring session: The development of the American economy from colonial times. Early American mercantile capitalism. Industrial and finance capitalism in the nineteenth and twentieth centuries. The World War of 1914 and its economic aftermath in the interbellum period. The New Deal's Social Service State. American capitalism and the future.

15, 16 — Problems and possibilities of economic planning. Dr. MARSH. 6 points.

Tu. and Th. at 9, and a third hour to be arranged.

Prerequisite, Course 1-2, or the equivalent.

The theoretical and practical problems which surround the choice of a governmentally planned economy as opposed to some other system for allocating economic resources.

Winter session: Economic society in theory and in fact. The problem of investment and savings in a system of "free enterprise" and in a planned system. The long-run allocation of resources in an imperfectly competitive economy. The possibility of rational allocation of resources in a planned economy. Planning and politics: the role of planning in a democracy.

Spring session: International trade under conditions of perfect and imperfect competition. The implications for trade policy. International cartels and combines. Governmental controls appropriate to autarchy. Planned economy and the international economic order. Free trade *vs.* planning as a road to world peace.

17, 18 — Introduction to statistical analysis. Dr. ELIOT. 6 points.

Tu. and Th. at 10 and a laboratory hour to be arranged.

Open to all excepting freshmen. Course 17 or the equivalent is prerequisite for Course 18. (Course 18 counts in Group II unless taken as part of a major in economics or sociology in which case it may count toward that major and the 14-point requirement in Group II must be satisfied in other subjects.)

Winter session: The gathering of statistical data; tabulation; graphic presentation; simpler methods of summarization and comparison. The problem of sampling. Statistical fallacies. Illustrations from various sciences. Possibilities and limitations of the statistical method.

Spring session: Index numbers; analysis of time-series; correlation; statistical significance and application of the normal probability curve.

[19 — Labor economics and labor problems.] Professor BAKER. 3 or 4 points.

Prerequisite, Course 1-2.

An introduction to the analysis of the problems of American labor in a changing capitalistic system: unemployment, wages and their determination, hours, sub-standard workers, federal and state legislation with special emphasis on efforts toward economic security, labor organization and "democracy in industry" in relation to scientific management and personnel administration. The work of the fourth point will cover some special phase of this subject.

Not given in 1941-42.]

[20 — Labor organization in the United States and Europe.] Professor BAKER. 3 or 4 points.

Open to seniors and juniors, and to sophomores who have had Course 1-2. Course 19 is recommended as a preceding course.

This course deals with the attempts of organized labor to improve the status of workers. The aims and methods of the American Federation of Labor and the Congress of Industrial Organizations will be contrasted in the discussion of their struggle for supremacy. The attitudes and policies of management in respect to collective bargaining will be examined in the study of the National Labor Relations Act and the Railroad Labor Act in operation. The position of the courts. Organized labor in Europe and Russia, and the International Labor Organization. The work of the fourth point will cover some special phase of this subject.

Not given in 1941-42.]

21 — Corporation finance and investment. Professor BAKER. 3 or 4 points.

M., W. and F. at 10.

Prerequisite, Course 1-2.

An introduction to the development and present nature of financial and business organization with relation to the state, and to the investor, worker and consumer. The nature and function of corporate securities in capital formation, promotion, capitalization, financial statements. The principles and practices of investment are studied in connection with a class project which follows the financial sections of the newspapers, and observes the attempt of the Securities and Exchange Commission to protect investors. The work of the fourth point will cover some special phase of this subject.

22 — Business enterprise and personnel problems. Professor BAKER. 3 or 4 points.

M., W. and F. at 10.

Prerequisite, Course 1-2 and preferably also Course 21.

The business organization as a going concern dealing with its problems of marketing, production, personnel and finance. The role of the government in the regulation of business enterprise on behalf of stockholders and bondholders, workers and consumers. The work of the fourth point will cover some special phase of this subject.

[23 — Financial institutions: organization and functions.] Professor SAULNIER. 3 points.

Prerequisite, Course 1-2.

A description of the organization and functions of commercial banks, savings banks, investment banking firms, consumer credit agencies, and other private and public financial institutions with attention to the supervision of these agencies by various government bodies, in particular to the structure and operation of the Federal Reserve System.

Not given in 1941-42.]

[24 — Money, prices and economic stability. Professor SAULNIER. 3 points.
Prerequisite, Course 1-2.

The nature of money and the relations between money, prices and general business conditions; the business cycle and inflationary and deflationary processes; the technics of economic control exercised through money devices and the more important of our current monetary issues.

Not given in 1941-42.]

27 — Economic analysis and economic problems. Professor SAULNIER.
3 points.

M., W. and F. at 11.
Prerequisite, Course 1-2.

The structure of neo-classical economic theory as a set of devices for analyzing economic problems. A detailed study of problems concerning the nature of the price system, factors affecting the profitability of business enterprises, and the distribution of the national income.

28 — Comparative economic theory. Professor SAULNIER. 3 points.

M., W. and F. at 11.

Prerequisite, Course 1-2, and preferably also Course 27.

Thorstein Veblen's theory of the relations between changing technological conditions and the institutions of business enterprise; the Marxian theory of economic development and the decline of capitalist institutions. Comparisons between these theories of our economic world and conventional economic thought.

29 — Statistical research. Dr. ELIOT. 3 points.

Hours to be arranged.

Prerequisite, Course 17 and the written permission of the instructor.

Special problems in social science selected with reference to the interest of the individual student. The emphasis is on the application of methods in actual statistical investigation, in the field when practicable, rather than on acquisition of further theory or technic.

41, 42 — Readings in economics. Professor SAULNIER. 6 points.

F., 2-4, or hours to be arranged.

Open to juniors and seniors who have had Course 1-2.

An introduction to a broad range of current literature bearing mainly on economic but necessarily also on associated social and political issues. The subject matter will be primarily of a non-technical character, selected so far as possible to meet the special interests of the students.

51, 52 — Economics seminar. Professor BAKER. 6 points.

W., 4-6, or hours to be arranged.

Recommended for seniors, but open to qualified juniors, on written permission of the instructor. Desirable as a full-year course.

Each student, or two students together, will work on some phase of a group project to be agreed upon by the seminar after reading and discussion.

***101, 102 — Public finance.** Professor HAIG. 6 points.

M. and W. at 1. 302 Fayerweather.

Open to qualified seniors. Except by written permission of the instructor, Course 101 is prerequisite for Course 102.

Winter session: General introduction and history of public finance. General theories and principles of taxation, incidence of taxation, and newer social theories of taxation. Applications of general principles to consideration of actual systems of taxation.

Spring session: Practical American problems of Federal, state and local taxation. Different kinds of public revenues, including public domain and public property, public works or industrial undertakings, fees, and special assessments. Classes of public expenditures and fiscal principles governing them. Public debt, methods of borrowing, redemption, etc. Fiscal organization of state. Budgets, national, state and local.

***b114 — The balancing of governmental budgets.** Professor SHOUP. 3 points.

Tu. and Th. at 9. 415 Business.

Open to qualified seniors.

An analysis of the factors governing the choice between normal recurring revenue, such as taxes, and extraordinary revenue such as loans, devaluation profits, etc., with particular attention to the relations of public finance to money and banking in these problems.

***161 — The regulation of public utilities.** Professor BONBRIGHT. 3 points.

Tu. and Th. at 11. 405 Business.

Open to qualified seniors.

An economic study of the public control of those enterprises, such as electrical, gas and street railway utilities, that are deemed to be "affected with a public interest." The concept of a public utility and the problems of regulation which are implied by this concept; the history of regulation in this and other countries; types of control exercised by public service commissions; valuation and rate regulation; the determination of proper rate schedules as among different classes of customers and service; the problems of capitalization and security regulation; the holding company and other forms of utility combinations; the relative advantages of private and public ownership.

SOCIOLOGY

1-2 — Introduction to sociology. Full-year course. Professor WALLER and Dr. KOMAROVSKY. 6 points.

M. and W. at 11 and in sections at one of the following hours: F. at 10 or at 11.

Open to all excepting freshmen.

The elements of the social structure, customs, institutions and associations; group interests and group formations; the family; the fabric of modern large-scale organization; the adjustment of society to environment; the more recent evolution of the social structure.

7, 8 — Human nature and the social order. Professor WALLER. 6 points.

M., W. and F. at 2.

Prerequisite, Course 1-2. Course 7 is prerequisite for Course 8.

Communication and the social self; social backgrounds of personality; the behavior of crowds and publics; propaganda, its uses and limitations; the analysis of selected social institutions of the modern city on the basis of concepts of human nature previously elaborated.

21, 22 — An introduction to the field of social work. Miss KASIUS. 4 points.

Th., 1-3.

Open to juniors and seniors. Course 21 is prerequisite for Course 22.

A description of types of social work found in present-day practice and an interpretation of main underlying principles; social work organizations and the various methods employed in meeting social problems.

31, 32 — The family. Dr. KOMAROVSKY. 4 or 6 points.

Tu., 2-4.

Prerequisite, Course 1-2. Course 31 is prerequisite for Course 32.

The family in primitive and historic society; the Industrial Revolution and the evolution of the modern family; dominant trends of change in forms and functions of the modern family; comparative analysis of the family trends in several European countries; urban-rural comparisons; problems of the modern family; family reorganization; current research in problems of marriage and divorce; probable direction of future change.

41, 42 — Socio-economic trends and problems. Dr. KOMAROVSKY. 4 points.

Th., 3-5.

Prerequisite, Course 1-2 or Economics 1-2. Course 41 is prerequisite for Course 42 except by written permission of the instructor.

This course may count toward a major in economics.

The interrelations of changing economic and social organization and social habits as affected by scientific discoveries and inventions. Among the subjects to be discussed are population trends and problems, shifts in social and economic stratification, urbanization and the problems of the metropolitan community.

97, 98 — Sociology seminar. Professor WALLER and Dr. KOMAROVSKY. 4 or 6 points.

Hours and subject to be arranged.

Open only to seniors on written permission of the instructors.

***104 — Contemporary American sociology.** Professor WALLER. 3 points.

Tu., 4-6. 224 Pupin.

Prerequisite, 12 points of sociology. Open only to qualified seniors.

A study of the rise and development of sociology on the American scene; an evaluation of the contributions of persons and schools; present organization and trends of development in the field.

***107 — Criminology.** Professor WALLER. 3 points.

Tu., 4-6. 231 Pupin.

Open to specially qualified seniors on written permission of the instructor.

Nature of crime. Relation of crime to society and to social change. Theories of crime causation; researches into crime causation; life-histories of criminals, community studies, statistics of crime.

See also Government 171, 172, page 87.

More advanced courses given at Columbia University are described in the Announcement of the Division of History, Economics, Public Administration and Social Science.

EDUCATION

Courses in education will not satisfy the 14-point requirement in any group.

Note. Barnard College students will not be allowed to take, in any one year, more than six points in the education courses listed below.

†51ES-52ES — Education seminar for juniors. Full-year course. Professors BUTTS and DRISCOLL, Dr. LINDEN and special lecturers. 6 points.

M., 2-4, and W. at 2. 303 Dodge.

An introduction for liberal arts students to the problems of education as a profession, aiming to give prospective teachers an understanding of important elements in good teaching, namely the major fields of organized knowledge, various educational points of view and their historical development in America, the important characteristics of children and adolescents as they grow and develop, and the wider culture as it affects education. As the year progresses, increasing attention will be given to observations of child development and school situations.

†53ES-54ES — Education seminar for seniors. Full-year course. Professors J. R. CLARK, WOODRING and HARTMANN, Dr. LINDEN and special lecturers. 6 points.

Tu. at 2, and Th., 2-4. 211 Teachers College.

Prerequisite, Course 51ES-52ES or the equivalent.

A continuation of the professional orientation started in the preceding course, with special attention to: the psychological bases of the learning process; the psychology of learning as applied to various subjects; the technics and materials of good instruction; curriculum trends; organizational problems and community relationships affecting secondary school teachers. During the year students will have increasing opportunities to gain, at first hand, an understanding of the problems of teaching through demonstrations, observation and participation in classroom situations.

Other courses offered at Teachers College are open under certain conditions to specially qualified seniors upon consent of the Committee on Instruction of Barnard College and the instructor in Teachers College. These courses include methods of teaching elementary and high-school subjects, including observation and participation. For further information the students should consult the Associate Dean of Barnard College.

ENGLISH

A major in English. — Students majoring in English will be required to take in English — *A* or *B* as follows:

A. A major examination in three parts: (I) history of the English language, including a reading knowledge of Anglo-Saxon or Middle English, and English medieval literature; (II) English literature before 1700 with special reference to Shakespeare and Milton; (III) English and American literature since 1700.

B. One part of the major examination described above and eighteen points in composition passed with an average of B; in addition, special knowledge of a particular field. Each student in consultation with her adviser should choose the field in which she expects to be examined. The field must not be too narrowly defined. The candidate must be able to write an essay in correct and effective English on an assigned topic of considerable scope.

These examinations must be passed with a grade of C.

Other fields — Related courses in other departments. A reading knowledge of at least two foreign languages, one of which should be modern.

See also **American Studies**, page 57, **Medieval Studies**, page 100, and **Comparative Literature**, page 63.

A — Composition. Full-year course. Professors BREWSTER, GREET, HOWARD, STURTEVANT and THORNBURY, Dr. McGuire, Miss REMER and Dr. ROBERTSON. 6 points.

M., W. and F. at 10 (Ia, b, c), at 1 (IIa, b), at 2 (IIIa, b); M. at 10 and Tu. and Th. at 11 (IVa); Tu., Th. and S. at 10 (Va), at 11 (VIa, b).

Prescribed for freshmen, and prerequisite for any other course except Courses **21-22** and **45-46** which are recommended to be taken parallel to Course A.

Students not thoroughly accustomed to the use of English should consult Miss Remer before registering for Course A.

D1-D2 — Clinical instruction in speech and voice. Full-year course. Professor GREET, Mrs. SEALS and Miss SANDVOS. No points credit.

Two lectures, an individual examination and three conferences.

Prescribed for all new students.

Composition courses

Prerequisite, Course A. *Students electing any course in composition must secure the written permission of the instructor in charge.*

3, 4 — Advanced composition. Professor HOWARD. 6 points.

Tu. and Th. at 10 and a third hour to be arranged.

Winter session: Daily themes.

Spring session: Essays in criticism. Experiments in modern verse, in narrative and in dramatic writing; designed for students who intend to major in English composition, but open to majors in other departments.

11, 12 — Story-writing. Professor STURTEVANT. 6 points.

Tu., 4-5:50 and a third hour to be arranged.

Courses **55, 56** and **69, 70** are recommended as parallel courses.

Intended primarily for students who wish to study and practice the short story, this course considers other forms of magazine writing incidentally.

15, 16 — Play-writing. Professor LATHAM. 4 or 8 points.

M. and W. at 3 and a third hour to be arranged.

The primary intention is not to train playwrights, but to give an insight into drama as a mode of expression. Critical study of plays in text and in the theatre. Dramatizations, writing of original sketches, pantomimes and plays. Stage trial of all work by members of the class.

Speech courses

Course 39, 40 is also advised for students specializing in speech.

21-22 — Speech. Full-year course. Mrs. SEALS and Miss SANDVOS. 4 points. M., W. and F. at 11 (I), at 1 (II).

Open to students of all classes.

Winter session: Fundamentals of voice and speech, voice exercises, practical English phonetics.
Spring session: The principles of reading aloud, with special reference to phrasing, inflection and emphasis.

23-24 — Speech. Full-year course. Mrs. SEALS. 4 points.

Tu. at 2 and Th., 2-4.

Prerequisite, Course 21-22.

Oral interpretation of literature, narrative prose, various types of verse, drama.

25-26 — Speech. Full-year course. Mrs. SEALS. 4 points.

Tu. and Th. at 9 and a laboratory hour to be arranged.

Open to juniors and seniors on written permission of the instructor.

Speech correction with special attention to the problems of each individual.

Literature courses

Course A is prerequisite for all courses except 45-46.

39, 40 (old number 13, 14) — **History of the English language.** Professor GREET. 6 points.

Tu. and Th. at 10. 308 Philosophy.

Open to juniors and seniors on written permission of the instructor. Course 39 is prerequisite for Course 40.

Introduction to English phonetics and to the history of the English sounds, inflections, syntax and vocabulary.

[**45-46 — Anglo-Saxon, including the Beowulf.** Full-year course. Professor GREET. 4 or 6 points.

Course 45 is prerequisite for Course 46.

A linguistic and literary study of Anglo-Saxon literature including, in the winter session, source materials of early English history; the battle poems of Brunanburh and Maldon; Old English lyrics; and, in the spring session, *Beowulf*.

Not given in 1941-42.]

49, 50 — Medieval epic and romance. Professor STURTEVANT. 4 or 6 points.

Tu. and Th. at 11 and a conference hour to be arranged.

Course 53-54 is recommended as a parallel course.

Myth; folktale; popular ballad; Norse Eddas; Icelandic sagas; medieval and middle English romance; saints' legends; medieval epics of France, England, Germany.

53-54 — Chaucer and his times. Full-year course. Professor GREET. 6 points.

M., W. and F. at 9.

Course 49, 50 is recommended as a parallel course.

The language and the literature of England in the later Middle Ages and the early Renaissance.
Winter session: Chaucer's *Canterbury Tales* and *Troilus and Criseyde*.

Spring session: *Pearl*, *Piers the Plowman* and other poems of the fourteenth and fifteenth centuries.

55, 56 — Literary criticism. Professor BREWSTER. 6 points.
Tu. and Th. at 3.

The chief critical essays and treatises from about 1550 to 1900 including Sidney, Dryden, Pope, Johnson, Coleridge, Arnold and other important critics. Students will also be asked to do some writing of an analytic, critical and original kind.

57, 58 — Development of English drama. Professor LATHAM. 6 points.
M., W. and F. at 1.
Course 57 is prerequisite for Course 58.

The development of English drama from its origins to the eighteenth century. Miracle plays, moralities, interludes, Early English comedy, Senecan tragedies, Chronicle history plays, Marlowe, Shakespeare, Ben Jonson, Beaumont and Fletcher and the Restoration Drama.

Courses **57, 58** and **59, 60** are ordinarily given in alternate years.

[**59, 60 — Modern English drama.** Professor LATHAM. 6 points.
English and American playwrights from the eighteenth century to the present.
Not given in 1941-42.]

61-62 — Shakespeare. Full-year course. Professor BREWSTER. 6 points.
Tu. and Th. at 10.

All of Shakespeare's plays and the more important poems. Students are advised to read as much of his work as possible before entering the course.

[**63, 64 — English literature of the Renaissance.** Professor HOWARD. 6 points.
Sir Thomas More and the English Humanists; court poets of Henry VIII; the University Wits; Elizabethan Prose.
Not given in 1941-42.]

65, 66 — English poetry from Spenser to Dryden. Professor HALLER. 6 points.

Tu. and Th. at 2 and conferences Tu. or Th. at 3 or at an hour to be arranged.

Spenser, the poetry of the Renaissance, Donne; Puritanism, the English Bible and Milton; Dryden and the beginnings of Classicism.

67, 68 — English literature of the eighteenth century. Professor THORNBURY. 6 points.

Tu. and Th. at 11 and a conference hour to be arranged.

Winter session: The principal authors of the Age of Pope.

Spring session: The principal authors of the Age of Johnson.

[**69, 70 — The novel.** Professor STURTEVANT. 6 points.

The novel as an art form in process of development and as a document of social change.
Winter session: A comparative study of the contemporary novel in England, the United States, and the continent of Europe.

Spring session: The novel in English in the eighteenth and nineteenth centuries, with some consideration of contemporaneous Russian masterpieces.

Not given in 1941-42.]

71, 72 — English literature from Blake to Byron. — — —. 6 points.
M., W. and F. at 10.

Course 71 is prerequisite for Course 72.

The poetry and poetic theories of Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. The prose of Scott, Lamb, Hazlitt and DeQuincey.

73, 74 — English literature of the nineteenth century (1830–1900). Professor HOWARD. 4 or 6 points.

M. and W. at 11 (4 points); additional hour for discussion, F. at 11 (6 points).

English literature from Carlyle to Kipling, with special reference to social conditions in England.

77–78 — American literature. Full-year course. Professor THORNBURY. 6 points.

Tu. and Th. at 10 and a conference hour to be arranged.

A study of American literary and cultural development from the colonial period to the present with special emphasis on certain great figures: Cooper, Melville, Longfellow, Emerson, Thoreau, Poe, Whitman, James, Howells, Clemens. Some material on inter-American literary parallels.

Contributions of Spain to world literature. Professor DE ONÍS. 3 points. See Comparative Literature 7 (page 63).

The great masterpieces of Spanish literature, with special attention to the relations of the literature of Spain and Spanish America and that of England and the United States.

91, 92 — Special reading. Professor LATHAM, Dr. McGuire, Miss REMER, and Dr. ROBERTSON. 4 points.

Tu., 3–5 (I), W., 3–5 (II), Th., 2–4 (III), F., 2–4 (IV).

Recommended for major students especially in the junior year; not open to other students; may be taken two years in succession. Registration in each section is limited. Students who elect this course in the junior year and change their major later will receive only half credit (1 point a session).

Special reading planned in each case to supplement and coördinate the student's other courses in English and related subjects.

FINE ARTS AND ARCHAEOLOGY

A major in Fine Arts. — Students majoring in fine arts will be required to take in

Fine Arts — Courses 41, 51, 52, 62, 65, 66, 75, 76 and other courses to be arranged in consultation with the department.

Other fields — A reading knowledge of French, German or Italian. Students planning to do graduate work must have German and one other modern language. Courses in history, literature, languages, philosophy or other fields which will vary with the special interest of the student and must be arranged in consultation with the major department.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in Fine Arts will be required to pass a major examination in addition to taking the courses mentioned above. This examination will consist of three parts: (I) an examination with slides or photographs to test the candidate's ability to recognize and analyze stylistic and iconographic elements; (II) a general examination on fundamental problems of style, evolution, and cultural relationships in art; (III) a detailed examination on *one* of the following fields to be chosen by the student: (a) ancient art, or (b) medieval art, or (c) Renaissance art to c. 1600, or (d) modern art, c. 1600 to the present, or (e) oriental art.

See also Medieval Studies, page 100.

FINE ARTS

1–2 — Introduction to the study of fine arts. Full-year course. Miss GASTON. 4 points.

Tu. and Th. at 10.

Open only to freshmen and sophomores.

A general study of esthetic problems as preparation for a more detailed study of the fine arts. This will include a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture and painting followed by a consideration of the relation of art forms to certain great periods of European culture.

41 — Ancient art. Professor BIEBER. 3 points.

M., W. and F. at 10. Conferences and visits to the Metropolitan Museum of Art on F. at 10 or at hours to be arranged.

Open to all excepting freshmen. History 5, 6 is recommended as a parallel course.

An introductory study of the art of Egypt, Mesopotamia, Persia, Greece and Rome.

[46 — Roman art.] Professor BIEBER. 3 points.

Open to all excepting freshmen. History 5, 6 is recommended as a parallel course.

Introduction to the origin and development of Roman art, covering in some detail architecture and Pompeian wall-painting with special emphasis on sculpture, historical relief and portraiture.

Not given in 1941-42.]

51, 52 — Medieval art. Miss WEILL. 6 points.

Tu. and Th. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors. History 35, 36 is recommended as a parallel course. Course 51 is prerequisite for Course 52.

An introductory study of the origin and development of Christian art in Europe through the early Christian, Byzantine, Carolingian, Romanesque and Gothic periods.

62 — Italian Renaissance sculpture. Dr. HELD. 3 points.

Tu. and Th. at 10 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The historical development of Italian sculpture from the late medieval period through Bernini. Special attention will be given to the genius of the Renaissance as expressed in the work of Donatello and Michelangelo.

65 — Italian Renaissance painting. Dr. HELD. 3 points.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to all excepting freshmen.

The development of Italian painting from the thirteenth to the sixteenth century from the stylistic and iconographic aspects, considered in its relationship to the social background of the time.

66 — Renaissance painting in northern Europe. Dr. HELD. 3 points.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The history and development of painting in the Flemish, Dutch, French and German schools from the end of the Gothic period through the seventeenth century.

67 — Prints and drawings. Miss BYRAM. 4 points.

M., W. and F. at 10 (I), at 11 (II) in 511 Schermerhorn and F. at 3:30 at the Metropolitan Museum of Art.

Open to qualified students on written permission of the department.

The history and technic of the graphic arts and drawing as illustrated in the work of the principal artists from the beginning of the fifteenth century to modern times.

75, 76 — European painting since the Renaissance. Dr. HELD. 6 points.

M. and W. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to all excepting freshmen. Course 75 is prerequisite for Course 76.

The development of painting in Europe from the sixteenth century to the present with emphasis on those trends which are most significant in the evolution of modern painting. Architecture and sculpture will be introduced to the extent to which a knowledge of these fields contributes toward the understanding of painting.

90 — A general survey of oriental art. Miss GASTON. 3 points.

M. and W. at 10 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to all excepting freshmen.

An introductory study of the arts of Persia, India, China, Japan and the Central Asiatic region, with particular emphasis on political history, philosophy and religion as they affect the arts, and an investigation of the contact between the west and the east.

For courses on Art of primitive man, see Anthropology 108, page 59; Greek arts and crafts, see Archaeology 63, 64, page 88; Esthetics, see Philosophy 41-42, 45, 46, 145-146, pages 106, 107.

Studio work

Note. Studio courses can count toward the degree only if taken parallel to a theoretical or historical course in fine arts.

DRAWING AND PAINTING

***u11-u12 — Design, drawing and painting.** Full-year course. Mr. FABRY. 4 points (see note above).

Tu. and Th., 2-4. 506 Avery.

Special fee, \$25 each session.

Course u11 is prerequisite for Course u12, except on written permission of the instructor.

Ability in drawing, design and painting is developed under personal supervision as a preparation for the study of fine arts or architecture, or for further experience in painting, sculpture or commercial art. Students are guided to observe, analyze and create, using various materials for expression, such as pencil, ink, pastel and water color. The course will include analytical discussions of elementary design, still-life drawing, life drawing, creative design and outdoor sketching.

Other studio courses given at Columbia University may be taken by written permission of the department. These are described in the Announcement of the Department of Fine Arts, Archaeology and Music.

FINE ARTS

Graduate courses

***141 — Ancient architecture.** Professor SWIFT. 3 points.

M. and W. at 1 and a third hour to be arranged for conference.

Open to qualified seniors.

A study of stylistic and structural developments in the architecture of the countries in or near the Mediterranean basin from prehistoric times to the reign of Constantine, with special emphasis on Egypt, Mesopotamia, the Aegean, Greece, and Rome.

[***143, 144 — Greek and Roman painting.** Professor BIEBER. 6 points.

Open to qualified seniors.

A history of painting from the Cretan-Mycenean age to the development of Roman wall-painting.

Not given in 1941-42.]

***146 — Roman art.** Professor SWIFT. 3 points.

M. and F. at 2 and a third hour to be arranged for conference. 503 Schermerhorn.

Open to qualified seniors.

An introduction to Roman art, including a systematic study of the last phase of classic art as presented by Roman sculpture and painting, and of the elements of Roman architecture, with preliminary consideration of the Hellenistic and Etruscan influences.

***147 — Greek and Roman portraiture.** Professor BIEBER. 3 points.

Th., 1-3. 503 Schermerhorn.

Open to qualified seniors.

A consideration of portraiture from the viewpoint of subject matter, likeness, aesthetic values, psychological and historical significance. The course traces in historical manner the portraiture of the Greeks and Romans, with special emphasis upon the periods of its greatest development, i.e., the fourth and third centuries B.C. and the early imperial period.

***148B — Culminating period of Greek sculpture (c. 500–350 B.C.).** Professor BIEBER. 3 points.

M., 3-5 and a third hour to be arranged. 503 Schermerhorn.

Open to qualified seniors.

A detailed study of the art of the fifth century with emphasis on the great artists, Myron, Polykleitus and Pheidias, and on the dated architectural sculptures, ending with a short discussion of the transition to the art of Praxiteles.

***152 — Architecture of the Middle Ages.** Professor SWIFT. 3 points.

M. and W. at 1 and a third hour to be arranged for conference. 407 Avery.

Open to qualified seniors.

The early Christian, Byzantine, Carolingian, Romanesque, and Gothic styles. In addition to its structural development and principles of design, each style is related to the civilization and other arts of its period.

***153 — Romanesque architecture.** Professor SCHAPIRO. 3 points.

M. and W., 11-12:15. 503 Schermerhorn.

Open to qualified seniors.

Lectures and reports on the architecture of western Europe from the tenth to the twelfth century; a consideration of recent studies on Carolingian architecture, the formation of the Gothic style and the role of technical and formal factors in medieval construction.

[***155 — Romanesque sculpture.** Professor SCHAPIRO. 3 points.

Open to qualified seniors.

Lectures and seminar reports on the sculpture of the eleventh and twelfth centuries, mainly in France. Principles of form and iconography; relations to the culture of the period, historical development.

Not given in 1941-42.]

[***156 — Romanesque art in Italy.** Professor LAWRENCE. 3 points.

Open to qualified seniors.

Architecture, sculpture and painting of the eleventh to thirteenth century in Italy; a study of regional styles from Lombardy and Venice to Apulia and Sicily.

Not given in 1941-42.]

[***161 — Architecture of the Renaissance.** Professor SWIFT. 3 points.

Open to qualified seniors.

A study of the origin and development of Renaissance architecture in Italy and its subsequent history in other parts of Europe.

Not given in 1941-42.]

*163—Florentine painting of the early Renaissance. Professor MEISS. 3 points.
M. and Th., 4:35–5:50. 503 Schermerhorn.
Open to qualified seniors.

The history of Florentine painting of the fifteenth century. Considerations of the principles of early Renaissance painting, determination of the successive stylistic phases common to the Florentine and the other Italian schools, and analysis of the work of the chief Florentine painters.

[*164 — Italian painting of the early Renaissance outside Florence. Professor MEISS. 3 points.

Prerequisite, Course 163 or 65. Open to qualified seniors.

The history of painting during the fifteenth century in Padua, Venice, Ferrara, Perugia, Siena and Rome.

Not given in 1941–42.]

[*169 — Dutch and Flemish painting of the seventeenth century. Dr. HELD. 3 points.

Open to qualified seniors.

A contrasting analysis of baroque sensualism in Flanders (Rubens, Van Dyck) as against Dutch realism and romanticism (Hals, Steen, Vermeer, Rembrandt, Ruisdael). A thorough study of social background in its various aspects.

Not given in 1941–42.]

*171 — Art of the baroque period. Dr. HELD. 3 points.

Tu. and Th., 3–4:25. 503 Schermerhorn.

Open to qualified seniors.

An analysis of the baroque style in European architecture, sculpture and painting with regard to the problems of its genesis, evolution and historical significance. This course covers the period from the Council of Trent to the French Revolution.

[*172 — Modern architecture. Professor SWIFT. 3 points.

Open to qualified seniors.

Types and theories in the structural art of modern times in Europe and America with special emphasis on the evolution of American architecture from the colonial period to the present.

Not given in 1941–42.]

*176 — European painting since 1860. Professor SCHAPIRO. 3 points.

Tu. and Th., 11–12:15. 305 Schermerhorn.

Open to qualified seniors who have had Course 75, 76 or the equivalent.

Analysis and interpretation of content and formal qualities of recent and modern painting, with detailed reference to social factors in the development of modern art.

*190 — History of Chinese art. Mr. POPE. 3 points.

W., 2–4 and a third hour to be arranged for conference. 407 Avery.

Open to qualified seniors.

The major developments in the arts of ceramics, bronzes, sculpture, and painting in China from the earliest times to about 1800 A.D.

*194 — History of Japanese art. Mr. HENDERSON. 3 points.

W., 4–6. 407 Avery.

Open to qualified seniors.

Primarily an outline of the historical development of Japanese painting and sculpture, from the introduction of Buddhism in the sixth century A.D. to the beginnings of the Meiji era (1868). The course includes references to the allied arts and the literature, as well as to religious and political history where these are closely connected to the main objects of study.

ARCHAEOLOGY

***100 — Introduction to ancient archaeology.** Professor DINSMOOR. 3 points.
Tu. and Th., 3-4:25. 503 Schermerhorn.

Open to qualified seniors.

The course will include discussions of various fields of archaeological developments in the Mediterranean area and will be concerned, not with the history of artistic evolution, but with the processes of discovery and methods of study through which our knowledge of this evolution has been attained.

[***153 — Topography and monuments of Attica and Athens.** Professor DAY. 3 points.

Open to qualified seniors.

A general survey of the subject.

Not given in 1941-42.]

***155 — Topography and monuments of Rome.** Professor HADAS. 3 points.
Hours and place to be arranged.

Open to qualified seniors.

A study of the growth of the city of Rome, with the history of her principal monuments.

More advanced courses given at Columbia University are described in the Announcement of the Department of Fine Arts, Archaeology and Music.

FRENCH

A major in French. — Unless they receive special permission from the department, students majoring in French will be required to take in

French — One year of phonetics and Courses 7, 8, 15, 16, 21-22 and other courses to be arranged in consultation with the department. Only two courses in the intermediate group may be counted in the major. The introductory language courses, 1-2, 3, 4, 3R cannot so count.

Other fields — Courses which will vary with the special interest of the student and should be arranged in consultation with the major department.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in French will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning this examination will be available on application to the department.

See also **The foundations of language**, page 63 and
Medieval Studies, page 100.

Introductory courses

1-2 — Introductory full-year course. Mrs. BAILEY and Mr. MESNARD. 8 points.

M., Tu., W., Th. and F. at 9.

Grammar, reading, conversation.

3, 4 — Intermediate course. Mrs. BAILEY and Mr. MESNARD. 6 points.
M., W. and F. at 2 (I); Tu., Th. and S. at 9 (II).

Prerequisite, Course 1-2 or two years of high-school French.

Review of grammar and syntax. Translation from and into English. Free composition.

3R — Intermediate course. Part II. Mrs. BAILEY. 3 points.

M., W. and F. at 1.

The equivalent of Course 4.

Prerequisite, Course 3 or three years of high-school French.

Intermediate courses

5, 6 — French life and thought in recent times. Drs. DE WYZEWA and STURDEVANT and Mr. MESNARD. 6 points.

M., W. and F. at 9 (I), at 10 (II), at 11 (III).

Prerequisite, Course **3, 4** or three years of high-school French.

A study based on novels, plays, verse, etc. of the nineteenth and twentieth centuries. Discussion in French of texts read. Free composition and reports based on readings.

6R — French life and thought in recent times. Part I. Mr. MESNARD. 3 points.

M., W. and F. at 1.

The equivalent of Course **5**. Prerequisite, Course **4** or **3R**.

5x, 6x — Practical course in sight reading and prepared translation. Professor LEDUC, Drs. DE WYZEWA and STURDEVANT and Mrs. BAILEY. 6 points.

M., W. and F. at 9 (I), at 10 (II), at 11 (III), at 1 (IV).

Prerequisite, Course **3, 4** or three years of high-school French.

Intended for students wishing to acquire ease and accuracy in reading historical, philosophical and scientific French, as well as literary prose and verse.

7, 8 — Masterpieces of literature from the medieval period to the twentieth century. Drs. DE WYZEWA and STURDEVANT. 8 points.

General lecture: Th. at 1 and in sections as follows: M., W. and F. at 9 (I), at 10 (II).

Prerequisite, a grade of at least B in Course **4** and the written permission of the department or a high rating in three years of high-school French. This course is required of students majoring in French and may be counted toward the major.

Lectures in French on the history of French literature, recitations, free composition and reports on outside reading.

9, 10 — Review of grammar and composition. Mr. MESNARD. 4 points.

Tu. and Th. at 10.

Open to students of all classes on written permission of the instructor. Intended primarily for those registered in literature courses who desire a rapid review of grammar and syntax. Limited to 10 students.

Language courses¹

11, 12 — Practice and theory of French phonetics. Professor VARNEY. 6 points.

M. and W. at 1, and F. at 3.

Open to students only on written permission of the instructor. Limited to 20 students.

Study of French articulation and intonation, general phenomena covering the spoken language, recitation and reading aloud. Phonograph records of the pronunciation of each student will be made from time to time for the purpose of correcting or testing individual progress.

[**13-14 — The regional French novel.** Full-year course. Professor MESPOULET. 4 or 6 points.

Open to juniors, seniors and qualified sophomores on written permission of the instructor. Limited to 15 students.

A study of the life and art of several French provinces based on recent novels.

Not given in 1941-42.]

¹ All courses are conducted entirely in French.

15, 16 — Advanced composition. Professor LE DUC. 6 points.
 Tu. and Th. at 10 and conferences for criticism.
 Specially intended for juniors majoring in French, who have the written permission of the instructor. Limited to 20 students.
 Translation from and into French; written reports on outside reading; short themes; "explanation de textes."

Literature courses¹

Students are reminded that the ability to use French both in speaking and in writing is considered a general requirement for all literature courses.

Course 7, 8 is prerequisite for all literature courses.

21–22 — French literature in the seventeenth century. Full-year course. Professor HOFFHERR. 6 or 8 points.
 M., W. and F. at 10.

A study of the most significant works of the principal writers of the classical period from 1600 to 1715.

23–24 — French literature in the nineteenth century; the romantic period. Full-year course. Professor MESPOULET. 6 or 8 points.

M., W. and F. at 10.

Open to juniors and seniors on written permission of the instructor.

A study of representative works of the poetry of the romantic movement.

[**25, 26 — History of the French novel.** Professor LE DUC. 6 points.

A study of the development of the novel in France from its origins to the end of the nineteenth century.

Not given in 1941–42.]

[**27, 28 — History of the French drama.** 6 points.

General survey of the development of the French drama from its origin to the present time; the most representative plays of the different periods.

Not given in 1941–42.]

31, 32 — French literature in the sixteenth century. Professor LE DUC. 4 or 6 points.

Tu. and Th. at 11 and a third hour to be arranged.

Open to juniors and seniors.

The literature of the sixteenth century with readings from Rabelais, Ronsard, Montaigne, etc.; the development of humanism and foreign influences.

33, 34 — History of French civilization. Professor HOFFHERR. 4 or 6 points.
 M. and W. at 11.

Open to juniors, seniors and qualified sophomores and to freshmen on written permission of the instructor.

General survey of the development of French civilization from the Roman conquest to the revolution; the political, artistic, literary and scientific activities of the French people in the formation of their national life and their contribution to human progress.

¹ All courses are conducted entirely in French.

34a — History of French civilization from the revolution to modern times.
Mr. MESNARD. 2 points.

Tu. and Th. at 11.

Prerequisite, Course 33, 34 or the equivalent.

General survey of the development of French civilization from the revolution to modern times, the political, artistic, literary and scientific activities of the French people in the formation of their national life and their contribution to human progress.

35, 36 — French literature in the eighteenth century. Dr. DE WYZEWA. 6 points.

M., W. and F. at 1.

Prerequisite, Course 21-22 or the written permission of the department.

French literature of the eighteenth century. The chief essayists, novelists and dramatists of the period in their most significant works and letters.

125-126 — Contemporary French literature. Full-year course. Professor MESPOULET. 6 or 8 points.

W. and F. at 11, and a conference for undergraduates M. at 11.

Open to qualified seniors on written permission of the instructor.

Novels, essays, letters that express the most important tendencies and aspirations of recent French prose; and verse that marks the evolution of French lyric poetry from the end of the Parnasse to our own day. The program for the year 1941-42 will cover the period from 1865 to 1895.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

GEOGRAPHY, GEOLOGY AND MINERALOGY

GEOGRAPHY

1-2 — Economic geography. Full-year course. Professor HOLZWASSER. 6 points in Group II or III.

Tu. and Th. at 9 and Th. at 1 or at 2.

Students wishing further work in subjects closely allied to geography are referred to Geology 3, 4, 27, and 28.

GEOLOGY

A major in Geology. — Students majoring in geology may count geography, geology and mineralogy as one subject. They will be required to take in

Geology — Courses 1-2 and 19 and other courses to be arranged in consultation with the department.

Other fields — Courses will vary with the special interest of the student and must be arranged in consultation with the major department.

1-2 — General geology. Elementary full-year course. Professor SHARP and Miss BELL. 8 points.

Lectures: Tu. and Th. at 11. Laboratory (4 hours): M. and W., 2-4 or Tu. and Th., 9-11 or 2-4. Occasional Saturday field trips in the spring, and one week-end field trip.

3 — The geologic and geographic development of South America. Professor HOLZWASSER. 3 points.

Tu. and Th. at 10 and a third hour to be arranged.

Prerequisite, Course 1 or Geography 1 or the equivalent.

A study of significant regions and problems of South America.

4 — The geologic and geographic development of the United States. Professor HOLZWASSER. 3 points.

Tu. and Th. at 10 and a third hour to be arranged.

Prerequisite, Course 1 or Geography 1 or the equivalent.

A study of problems and regions selected to suit the needs of the students.

[**5, 6 — Applied geology.** Professor HOLZWASSER. 4 points.

Prerequisite, Course 1-2 or Mineralogy 1 or the written permission of the instructor. Either half of this course may be taken separately.

A study of the minerals of economic importance and of the application of geology to present-day industrial and commercial development. Winter session: ore deposits. Spring session: non-metallic minerals of commercial use.

Not given in 1941-42.]

[**13 — Summer field course.** Professor HOLZWASSER. 2 weeks in the field before the opening of summer session and the subsequent preparation of a report. 3 or 4 points.

Prerequisite, Course 1-2.

This course is not given every year. Registration must be made by April 15. The tuition fee of \$40.00 is payable by June 1.

Not given in 1941.]

[**15-16 — Paleontology.** Full-year course. Professor HOLZWASSER. 6 points. Prerequisite, Course 1-2.

Not given in 1941-42.]

[**17-18 — Glacial geology.** Full-year course. Professor SHARP. 4 points. Preceding or parallel, Course 1-2.

Not given in 1941-42.]

[**19 — General geology.** Second course: Professor SHARP. 3 points.

Prerequisite, Course 1-2.

Structural and dynamic geology.

Not given in 1941-42.]

27 — Principles of geomorphology. Professor SHARP. 3 points.

M., W. and F. at 1.

Prerequisite, Course 1-2 or the equivalent.

A study of the origin and evolution of the surface features of the earth as determined by the interaction between geologic structures and erosional processes.

28 — Regional geomorphology of the United States. Professor SHARP. 3 points.

M., W. and F. at 1.

Prerequisite, Course 1-2 or the equivalent; may be taken parallel to Course 2.

A description and discussion of the major topographic divisions of the United States.

MINERALOGY

[**1 — General mineralogy.** Professor HOLZWASSER. 3 points.

Prerequisite, a knowledge of elementary chemistry.

Not given in 1941-42.]

Other courses given at Columbia University are described in the Announcement of the Division of Geology and Geography.

GERMANIC LANGUAGES AND LITERATURES

A major in German. — Students majoring in German will be required to take in German — Courses 9, 10, 45, 46, 51 and other courses to be arranged in consultation with the department.

Other fields — Courses will vary with the special interest of the student and must be arranged in consultation with the major department.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in German will be required to pass a major examination in addition to taking the courses mentioned above. Information regarding this examination will be available on application to the department.

See also *The foundations of language*, page 63 and
Medieval Studies, page 100

Introductory courses

1-2 — Beginners' full-year course. Mrs. STABENAU and Mr. PUHAN. 6 points. M., W. and F. at 9 (I), at 1 (II); Tu. and Th. at 9 and F. at 2 (III):

Elements of grammar, easy reading, written and oral practice.

3, 4 — Intermediate course. Mrs. STABENAU and Mr. PUHAN. 6 points. M., W. and F. at 9 (I), at 11 (II).

Prerequisite for Course 3, Course 1-2 or two years of high-school German.

Prerequisite for Course 4, Course 3 or three years of high-school German.

Rapid reading of texts, with practice in writing and speaking German.

3R — Intermediate course. Part II. Professor PUCKETT. 3 points: M., W. and F. at 1.

The equivalent of Course 4, given for students who are not sufficiently advanced to take Course 5 or 7.

Rapid reading of texts, with practice in writing and speaking German.

4a — Advanced course. Professor PUCKETT. 3 points. M., W. and F. at 1.

Prerequisite, Course 3R or 4 or the equivalent.

Emphasis on speaking and writing the language. Reading of literary prose.

Language and literature courses

5, 6 — Lessing, Goethe and Schiller. Professor BRAUN. 6 points: M., W. and F. at 11.

Prerequisite for Course 5, Course 3 and 3R or 4, or a high grade in three years of high-school German.

Prerequisite for Course 6, Course 5 or the written permission of the instructor. Course 5, 6 is recommended as preparation for more advanced courses in German literature.

Although the course emphasizes literary appreciation rather than practice in the language, considerable opportunity is offered in the discussions for such practice.

7, 8 — Modern German prose. Professor PUCKETT. 6 points.

M., W. and F. at 10.

Prerequisite for Course 7, Course 3R or 4, or the written permission of the instructor.

Prerequisite for Course 8, Course 7, or the written permission of the instructor.

Rapid reading of modern German historical, critical and scientific prose, assignments in German newspapers and journals. Structure and development of vocabulary. Especially helpful in giving a more fluent reading knowledge of German for use in other fields, such as science and history, and in preparing for the foreign language test in German.

9, 10 — Practice course. Mrs. STABENAU and Professor BRAUN. 4 points.

Tu. and Th. at 10.

Prerequisite, Course 3 or a good grade in three years of high-school German. Conversation and written exercises.

17 — German lyric poetry. Professor PUCKETT. 2 points.

Tu. and Th. at 9.

Prerequisite, Course 3, 4 or the equivalent.

25, 26 — The drama of the nineteenth century. Professor BRAUN and Mrs. STABENAU. 4 or 6 points.

Tu. and Th. at 11.

Prerequisite, Course 5, 6 or 7, 8 or the equivalent.

[27 — Prose fiction of the nineteenth century.] Professor PUCKETT. 2 or 3 points.

Prerequisite, Course 5, 6 or 7, 8 or the written permission of the instructor.

Not given in 1941-42.]

28 — The literature of the twentieth century. Professor PUCKETT. 2 or 3 points.

Tu. and Th. at 9.

Prerequisite, Course 5, 6 or 7, 8 or the written permission of the instructor.

[30 — German romanticism.] Professor PUCKETT. 2 or 3 points.

Prerequisite, Course 5, 6 or 7, 8 or the written permission of the instructor.

Not given in 1941-42.]

36 — Goethe's Faust. Professor BRAUN. 3 points.

M., W. and F. at 9.

Open to all except freshmen, who have had Course 5, 6 or 7, 8 or the equivalent.

[45, 46 — History of German literature from the earliest times to the nineteenth century.] Professors BRAUN and PUCKETT. 6 points.

Prerequisite, Course 5, 6 or 7, 8 or the equivalent.

Not given in 1941-42.]

51 — The Arts in German life. Professor BRAUN. 3 points.

M., W. and F. at 9.

Open to students of all classes.

Illustrated lectures in English on the development and correlation of German literature, music and art, with the necessary reference to history and philosophy. Reading of representative literary works, in German for students with a reading knowledge of the language, in English translation for others.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

GOVERNMENT

A major in Government. — Students with a major in government will be required to take in

Government — Courses 1, 2; 3, 4 and beyond these a number of more advanced courses determined in each case in accordance with the field of interest of the student. Courses 1, 2 and 3, 4 must have been taken by the end of the junior year.

Because of the close relationship between the subject matter of history and that of government students majoring in government may, with the written permission of the adviser, offer as part of the required 28 points, 6 points in history including a choice of History 1-2; 9, 10; 33, 34; 51, 52; 53, 54; 63, 64; 79, 80; 91, 92, or 93, 94. When such courses are counted toward the major in government they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

Other social sciences. — In view of the essential unity of the social sciences every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser:

Anthropology
Economics
Geography
History
Philosophy
Psychology
Sociology.

A major in Economics and Government. — Students majoring in economics and government will be required to take:

Economics 1-2; 13 or 14; 17; 27. Government 1, 2; 3, 4; 25, 26; and at least one additional course in economics or in government.

Other social sciences. — See requirement stated above.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in government or in economics and government will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning this examination will be available on application to the department.

See also **American Studies**, page 57.

1, 2 — An introduction to American public affairs. Professor CLARK (Section I) and Miss DAVIES (Section II). 6 points.

M., W. and F. at 1 (I); also at 9 (II) for freshmen only.

Open to students of all classes. Course 1 is prerequisite for Course 2.

A survey of contemporary American public problems, including the organization and functions of the federal government, the relation of the states to the nation, the leadership of the executive and the process of administration, law and legislation, the judicial system and the administration of justice, the party system and the problems of city government; the governmental regulation and protection of business and labor, the conservation of natural resources and the promotion of public welfare, health and education.

[**3 — Not given in 1941-42.**]

4 — Comparative government. Dr. Wood. 3 points.

M., W. and F. at 11.

Open to all excepting freshmen.

An introduction to the study of government, especially as illustrated by the institutions and experience of certain foreign nations.

7, 8 — American political life. Professor MOLEY. 4 points.

Tu. and Th. at 9.

Open to all excepting freshmen. Specially intended for students not majoring in government who desire a broad survey of the subject matter of American politics.

American politics chiefly considered in the light of the ideas, achievements and influence of important political leaders such as Jefferson, Hamilton, Marshall, Lincoln, Hanna, Theodore Roosevelt, Wilson and F. D. Roosevelt, and of such interpreters of American life as Emerson, Whitman, Mark Twain and Henry Adams.

[9, 10 — The British Empire. Professor PEARDON. 6 points.

Prerequisite, Course 3 or History 34. Course 9 is prerequisite for Course 10.

The transformation of the British Empire into a Commonwealth of Nations; government and politics in the self-governing Dominions; India and the Dependent Empire.

Not given in 1941-42.]

11 — International relations. Dr. DEAN. 3 points.

Th., 3-5.

Prerequisite, Course 3, 4 or History 1-2. Open to juniors and seniors.

A study of contemporary world politics with special reference to the basic factors — geographic, economic, political, traditional, etc. — that enter into the foreign policies of states.

13 — Pan-American affairs. Dr. WOOD. 3 points.

M., W. and F. at 11.

Open to all excepting freshmen.

An analysis of the play of international forces both within Latin America and between Latin America and Europe and the United States.

23, 24 — Government and social control. Professor CLARK. 6 points.

M. and W. at 2.

Prerequisite, Course 1, 2 or the equivalent.

Methods of social control by government with particular emphasis on the changing relationships of the legislative, executive and judicial branches of the government and of the parts played by the federal and state governments. The relationship of government to housing, child welfare, wages, industrial disputes and social security.

Courses 23, 24 and 25, 26 are ordinarily given in alternate years.

[25, 26 — Constitutional law of the United States. Professor CLARK. 6 points.

Prerequisite, Course 1, 2 or the equivalent.

The nature of constitutional law. The development of constitutional principles in the decisions and opinions of the Supreme Court of the United States in relation to federalism; civil and political rights; separation of powers; the President and executive power; regulation of commerce; taxation; the police power; due process of law and the equal protection of the laws.

Not given in 1941-42.]

31, 32 — The history of political thought. — — —. 6 points.

Tu. and Th. at 2.

Prerequisite, Course 3, 4 or History 1-2. Course 31 is prerequisite for Course 32.

A study of the development of political ideas from the Middle Ages to recent times.

41, 42 — Problems in public administration. Professor CLARK. 6 points.

Hours to be arranged.

Prerequisite, 6 points in government and the written permission of the department.

First-hand observation and study, in coöperation with various civic and governmental organizations, of problems of local, state and national government administration.

61, 62 — Seminar for majors. Professor CLARK. 4 points.

Tu., 3-5.

Required for senior majors.

Selected subjects in politics, public administration and jurisprudence.

71, 72 — Problems of government. Professor CLARK. 2 points.

Hours to be arranged.

This course may be taken only in connection with some other course in government.

Graduate courses

Note: The following graduate courses in the Department of Public Administration may be taken by specially qualified seniors. Students who desire to elect any of them must secure the approval of the Department of Government at Barnard. Ordinarily a minimum of 6 points of government in addition to a major interest in the social sciences is required as a prerequisite.

GOVERNMENT

***101, 102 — The process of government.** Professor WALLACE. 6 points.

Th., 7:30-9:10 P.M. 302 Fayerweather.

Open to qualified seniors.

Winter session: Analysis of various factors and forces which operate in the process of politics including agencies of propaganda, pressure groups, political parties, sectional influences and class predilections.

Spring session: Analysis of certain problems concerned with the structure of government, law-making and process of administration.

***171, 172 — Modern ideas of the state.** Professor MACIVER. 6 points.

W., 4-6. 401 Fayerweather.

Open to qualified seniors.

This course may count toward a major in sociology.

Winter session: A review of the main trends of political thought from Machiavelli to the present day, with more emphasis on the period since Rousseau. In the main the course consists of a critical discussion of the doctrines of sovereignty, political obligation, liberty and the relation of citizen and state, as propounded by a succession of political thinkers.

Spring session: An examination of the theories associated with present-day forms of the state, with special reference to the conflict between totalitarian and democratic theories. This is followed by an analysis of the relation of the state to the economic order, regarded as a fundamental determinant of modern political problems.

PUBLIC ADMINISTRATION

***155, 156 — Principles of public administration.** Professor MACMAHON. 6 points.

W., 7:30-9:10 P.M. 410 Fayerweather.

Open to qualified seniors.

A topical analysis of the principles of administrative organization in modern government with attention concentrated illustratively on the national government of the United States and the implications of recent changes. The problems approached include: delegation by the legislative body, administrative integration, the special cases for autonomy in the conduct of regulatory and managerial activities, personnel, administrative appeals and judicial review, and functional and geographic modes of devolution.

Other courses offered at Columbia University are open to Barnard students under the conditions mentioned in the foregoing Note.

GREEK AND LATIN

A major in Greek, or in Latin, or in Greek and Latin combined. — Students majoring in Greek, or in Latin, or in Greek and Latin combined will be required to take courses to be elected in appropriate sequence under the direction of the department. Toward a

Major in Greek — Any courses in Greek and 4 points in archaeology or civilization or Greek history may count.

Major in Latin — Any courses in Latin and 4 points in archaeology or civilization or Roman history may count.

Major in Greek and Latin combined — The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended. Students will find it profitable to take courses in Greek history, or in Roman history, or in both (History 5, 6; 15, 16; 17, 18), and courses in archaeology and civilization.

Other fields — The work in other fields will vary with the special interest of the student and should be arranged in consultation with the major department.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in this department will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning this examination will be available on application to the department.

See also **The foundations of language**, page 63.

ARCHAEOLOGY AND CIVILIZATION

Students majoring in Greek or in Latin may count courses in archaeology and civilization either toward their major or toward the 14-point requirement in the group indicated for each course by the statement made in connection with the point value, but not to cover both requirements. For all other students courses in archaeology and civilization will count toward the 14-point requirement in the group indicated for each course by the statement made in connection with the point value.

ARCHAEOLOGY

61 — Centers of Hellenic civilization. Professor DAY. 2 points in Group III.
M. and W. at 3.

Open to all excepting freshmen.

A study of life at certain Greek cities and sanctuaries of the Prehellenic, Hellenic and Hellenistic periods, as revealed by existing monuments.

[63, 64 — Greek arts and crafts.] Professor DAY. 4 points in Group III.
Open to all excepting freshmen.

A study of Greek life as reflected by vases, coins and other minor arts.

Not given in 1941-42.]

[71 — The Greek and Roman theatre.] Professor BIEBER. 3 points in Group I.

Development of tragedy, comedy and theatre building, based on literary evidence and particularly on monuments and objects of art. Third hour for the reading, in English translation, of Aeschylus, Sophocles, Euripides, Aristophanes, Plautus and Terence.

Not given in 1941-42.]

CIVILIZATION

49, 50 — Greek life and thought. Professor DAY. 4 points in Group III.
Tu. and Th. at 10.

Open to students of all classes.

A portrayal of Greek civilization.

53, 54 — Roman life and thought. Professor DAY. 4 points in Group III.
Tu. and Th. at 2.

Open to students of all classes.

Various aspects of Roman civilization.

55, 56 — Greek literature in translation. Dr. CLAFLIN. 4 points in Group I. Tu. and Th. at 11.
Open to students of all classes.

Winter session: Homer, Hesiod, lyric poetry, Herodotus and Thucydides.
Spring session: The drama, oratory and philosophy.

GREEK LANGUAGE AND LITERATURE

1-2 — First course (full-year). Professor HIRST. 3 recitations, 2 hours unprepared work in classroom. 8 points.

M., Tu., W., Th. and F. at 2.

Prerequisite, elementary Latin.

Grammar, composition, selected readings in prose and verse; selections from Homer's *Iliad*. This course may not be begun in the spring session.

11 — Homer: *Odyssey*; Lucian: selections. Professor DAY. 3 points.

M., W. and F. at 10.

Prerequisite, Course 1-2 or three years of high-school Greek.

12 — Plato: *Apology*; Euripides (one play). Professor HIRST. 3 points:

M., W. and F. at 10.

Prerequisite, Course 1-2 or three years of high-school Greek.

19-20 — Prose composition. First course (full-year). Professor DAY. 2 points.

Hour to be arranged.

May be taken in connection with any reading course in Greek (except Course 1-2), but not separately, except by special permission; particularly recommended to students who have taken only Course 1-2. This course may be taken for credit in two different years.

[**21 — Greek tragedy.** Dr. RICHARDS. 3 points.

Prerequisite, Course 11 or 12 or 25 or 26.

Not given in 1941-42.]

[**22 — Greek comedy.** Professor VAN HOOK. 3 points:

Prerequisite, Course 11 or 12 or 25.

Not given in 1941-42.]

25 — Selections from Herodotus: *book VII*. Professor HIRST. 2 points.

Tu. and Th. at 11.

Prerequisite, Course 1-2 or three years of high-school Greek.

Expedition of Xerxes and the battle of Thermopylae.

26 — Demosthenes: *Olynthiacs* and *Philippics*. Professor DAY. 2 points.

Tu. and Th. at 11.

Prerequisite, Course 11, 12 or 25.

The appeals of an Athenian patriot and outstanding orator for resistance to the aggression of Philip of Macedon.

29-30 — Prose composition. Second course (full-year). Dr. RICHARDS and Mr. HOUSEHOLDER. 2 points.

Hour to be arranged.

Prerequisite, Course **19-20** or the equivalent.

May be taken in connection with any reading course in Greek, but not separately, except by special permission. This course may be taken for credit in two different years.

***103, 104 — Greek literature. Part II. Prose.** Professor VAN HOOK. 6 points. M. and W. at 4. 709 Philosophy.

Prerequisite, Course **21** or **22** or **25** or **26**. Open to qualified seniors.

General survey, with extensive reading, in Greek, of Greek prose.

***139-140 — Prose composition.** Advanced full-year course. Professor VAN HOOK. 4 points.

Hour to be arranged.

Prerequisite, Course **29-30**. Open to qualified seniors.

See also Archaeology, page 88, Civilization, page 88, Fine Arts **41**, page 74 and History (Courses **5, 6, 15, 16, 17, 18**), page 93.

LATIN LANGUAGE AND LITERATURE

3 — Selections from Vergil: *Aeneid I-VI*. Dr. CLAFLIN. 3 points: M., W. and F. at 9.

Prerequisite, two or three years of high-school Latin. Course **19-20** is strongly recommended as a parallel course.

Parts of the *Aeneid* will be read and the poem will be studied as a whole.

4 — Cicero: *De Senectute*; Ovid, selections from the Elegiac Poems. Dr. CLAFLIN. 3 points.

M., W. and F. at 9.

Prerequisite, Course **3** or the equivalent. Not open to students who have had any reading course beyond Course **11, 12**. Course **19-20** is strongly recommended as a parallel course.

11 — Livy: selections; Catullus: selections. Professor HIRST. 3 points. M., W. and F. at 1.

Prerequisite, Course **3** or the equivalent in entrance Latin. Course **19-20** is strongly recommended as a parallel course.

12 — Horace: selected *Odes* and *Epodes*. Professor DAY. 3 points. M., W. and F. at 1.

Prerequisite, Course **11**. Course **19-20** is strongly recommended as a parallel course.

[**17-18 — Lectures on Latin literature.** 2 points.

Open to students who are taking any reading course in Greek or Latin; particularly recommended to students in Course **11, 12**.

Not given in 1941-42.]

19–20 — Latin composition. First course (full-year). Dr. CLAFLIN. 2 points. M. at 3.

May be taken in connection with any reading course in Latin, but not separately, except by special permission. Strongly recommended as a parallel to Courses **3, 4** and **11, 12**. This course may be taken for credit in two different years.

21 — Horace: *Satires, Epistles.* Professor DAY. 3 points.

M., W. and F. at 9.

Prerequisite, Courses **11** and **12**.

A genial Roman poet's outlook on life.

22 — Juvenal; Martial; Pliny. Professor HIRST. 3 points.

M., W. and F. at 9.

Prerequisite, Courses **11** and **12**.

Roman life and thought in the early Empire.

[**25 — Vergil: *Aeneid VII–XII,* selections.** Professor HIRST. 2 points.

Prerequisite, Courses **11** or **12** and **21** or **22**.

Not given in 1941–42.]

[**26 — Lucretius: selections.** Professor DAY. 2 points.

Prerequisite, Courses **11** or **12** and **21** or **22**.

Not given in 1941–42.]

27 — Tacitus: *Annals I–VI,* selections. Professor HIRST. 2 points.

Tu. and Th. at 9.

Prerequisite, Courses **11** or **12** and **21** or **22**.

A study of the life and times of Tiberius.

28 — Cicero: *Letters,* selections. Professor DAY. 2 points.

Tu. and Th. at 9.

Prerequisite, Courses **11** or **12** and **21** or **22**.

The intimate correspondence of a great Roman statesman, — a primary source for Roman history.

29–30 — Prose composition. Second course (full-year). Dr. RICHARDS. 2 points.

Th. at 1.

Prerequisite, Course **19–20**.

May be taken in connection with any reading course in Latin, but not separately, except by special permission. This course may be taken for credit in two different years.

37 — Plautus, Terence, Seneca. Professor HIGHET. 3 points.

Tu. and Th. at 3 and a third hour to be arranged.

Prerequisite, Course **21, 22** or **25, 26** or **27, 28**.

A study of Roman drama from its beginnings in the Republic to its decay in the Empire. Every type of play, from farce to tragedy, is discussed; three complete dramas (a tragedy by Seneca and comedies by Plautus and Terence) are read; and the connection of Roman dramatic art with Greek and modern dramaturgy is worked out.

38 — Roman philosophy. Professor von FRITZ. 3 points.

Tu. and Th. at 3 and a third hour to be arranged.

Prerequisite, Course **21, 22** or **25, 26** or **27, 28**.

Selections from the philosophical works of Cicero and Seneca will be read and discussed in the light both of the Greek background of Roman philosophy and of the specifically Roman elements in it.

[**41, 42 — Latin literature.** Professor HIGGET. 6 points.

Latin oratory and Latin epic, tracing the development of rhetoric and the epic style through Latin literature.

Not given in 1941-42.]

***139-140 — Prose composition.** Advanced full-year course. Professor HIGGET. 4 points.

Th. at 5. 709 Philosophy.

Prerequisite, Course **29-30.** Open to qualified seniors.

See also Archaeology, page 88, Civilization, page 88, and History (Courses **5, 6, 15, 16, 17, 18,**) page 93.

HISTORY

A major in History. — Students majoring in history will be required to take the following courses in

History — Course 1-2 and at least two other general courses, such as those offered in ancient, medieval, American or English history (Courses 5, 6; 7, 8; 9, 10; 33, 34). They should then concentrate their attention on some special field in which to do work of a more advanced character, such as that offered in Courses 15, 16; 17, 18; 35, 36; 51, 52; 53, 54; 55, 56; 63, 64; 79, 80; 91, 92; 93, 94.

On account of the close relationship between the subject matter of history and that of government, history majors may with the written permission of the adviser offer as part of the 28 points of the major requirement 6 points in government selected from Courses 1, 2; 3, 4; 7, 8; 9, 10; 11; 31, 32. When such courses are counted toward the major they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

Other social sciences. — In view of the essential unity of the social sciences, majors in history must elect 12 points distributed in two social sciences other than history. The courses will be selected in conference with the adviser. Certain of these courses may also be counted toward the satisfaction of the general requirement in Group I or Group II. (See page 30.)

History majors must acquire a reading knowledge of some foreign language.

With the work in history they may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art, modern history and international relations or sociology, English history and literature or government, American history and economics, the history of thought and culture.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in 1941, all students majoring in history will be required to pass a major examination in addition to taking the courses mentioned above. This examination will consist of three parts of which one will be a general examination in European and American history, the other two in the fields of special study pursued by the student.

See also **American Studies**, page 57 and
Medieval Studies, page 100.

Introductory course

1-2 — Survey of modern European history from the age of discovery to the close of the World War. Full-year course. Professors BYRNE and HUTTMAN, Mme. MURET, and Dr. YOUNG. 6 points.

M., W. and F. at 9 (I), at 11 (II); also for freshmen only, M., W. and F. at 11 (III) and Tu., Th. and S. at 11 (IV).

Open to students of all classes.

Winter session: Foundations of modern Europe; political, economic and intellectual achievements from the fifteenth century to the eighteenth; the British, American and French Revolutions; the era of Napoleon and the Congress of Vienna.

Spring session: The Industrial Revolution; rise of nationalism; social, intellectual and economic problems of the nineteenth century; imperialism and world politics; causes, character and consequences of the World War.

General courses

5, 6 — The history of the ancient world. Professor OLIVER. 6 points.

M., W. and F. at 9.

Open to sophomores, juniors and seniors and to qualified freshmen on written permission of the department. Fine Arts 41 is recommended as a parallel course.

A survey of the ancient Orient, Greece and Rome.

[7, 8 — Europe in the Middle Ages.] Professor BYRNE. 4 or 6 points.

Open to all excepting freshmen. Fine Arts 51, 52 is recommended as a parallel course. Course 7 is prerequisite for Course 8.

The history of the Middle Ages from the decline of the Roman Empire through the Renaissance; political movements and theories; social and economic organization; religious, intellectual and artistic life.

Not given in 1941-42.]

9, 10 — History of the American nation from colonies to world power. Dr. YOUNG. 6 points.

M., W. and F. at 11.

Open to sophomores, juniors and seniors and to qualified freshmen on written permission of the instructor.

Winter session: Political, social and economic aspects of American history under the British Empire, during the Revolution, and in the early republic; territorial expansion and foreign affairs before the Civil War; political parties and sectionalism to the Compromise of 1850.

Spring session: The Civil War and reconstruction; nationalism and industrial capitalism; the agrarian revolt and the reform movement; the United States as a world power; the World War and after.

33, 34 (old number 11, 12) — The history of England with special emphasis on the cultural as well as the political aspects of the periods. Professor HUTTMAN. 4 or 6 points.

Tu. and Th. at 2.

Open to sophomores, juniors and seniors and to qualified freshmen on written permission of the instructor.

Winter session: Life in medieval England; the growth of the Constitution; Tudor England; the separation from Rome; the Elizabethan Age; the Puritan Revolution.

Spring session: The Restoration; the glorious revolution; eighteenth-century England; the building of the Empire; political and social reforms of the nineteenth century; the Irish question; international relations; the World War.

More advanced courses

[15, 16 — History of Greece.] Professor OLIVER. 6 or 8 points.

Open to juniors and seniors and to sophomores on written permission of the instructor. Fine Arts 41 is recommended as a parallel course.

A short survey of Greek civilization in its three "stages": Helladic, Hellenic and Hellenistic; fifth-century Athens, as the highest type of Greek culture, and the Hellenistic Age, as the period of cultural transmission.

Not given in 1941-42.]

Courses 15, 16 and 17, 18 are ordinarily given in alternate years.

17, 18 — History of Rome. Professor OLIVER. 6 or 8 points.

M., W. and F. at 1.

Open to juniors and seniors and to sophomores on written permission of the instructor.

The rise of Rome, her conquest of the Mediterranean world, a detailed study of the Empire.

35, 36 (old number **77, 78**) — Medieval civilization and the Renaissance. Professor BYRNE. 6 points.

Tu. and Th. at 10.

Open to juniors and seniors and to sophomores on written permission of the instructor. A fine arts course to be selected from **51, 52, 62, 65, 66** is recommended as a parallel course.

Winter session: The social and cultural history of the Middle Ages with emphasis upon developments in the twelfth and thirteenth centuries.

Spring session: Politics and society in the fourteenth, fifteenth and early sixteenth centuries.

51, 52 — Europe before and after the World War. Professor HUTTMAN. 6 points.

M., W. and F. at 10.

Open to juniors and seniors and to sophomores on written permission of the instructor. Course **51** is prerequisite for Course **52** except on written permission of the instructor.

Political and social development of England, France, Germany, Russia and Italy since 1890. The Near East; the new imperialism; partition of Africa; international relations; the World War; the Peace Conference; the new Europe and its problems; Europe between the peace treaties and the new war.

[**53, 54** (old number **63, 64**) — Europe in the nineteenth century (1815–1900). Mme. MURET. 6 points.

Open to juniors and seniors and to sophomores on written permission of the instructor.

A review of the bases of contemporary Europe and a history of its principal nations after 1815. Nineteenth-century developments; the results of the Industrial Revolution; the growth of liberalism, democracy, nationalism and imperial rivalries; socialism and syndicalism in theory and practice; romanticism and realism in arts and letters; scientific and religious thought.

Not given in 1941–42.]

55–56 (old number **61–62**) — The French Revolution and Napoleon. Full-year course. Mme. MURET. 6 points.

Tu. and Th. at 9 and Th. at 1.

Open to juniors and seniors and to sophomores on written permission of the instructor.

A study of the Revolution. The background of eighteenth-century Europe. Origins of the Revolution, its political and social doctrines. The Napoleonic era and the spread of revolutionary ideas. Reaction and the Congress of Vienna.

63, 64 (old number **79, 80**) — The Near East. Dr. GRANT. 4 or 6 points. M. and W. at 2.

Open to seniors and specially qualified juniors on written permission of the instructor.

The history of conflicting nationalisms in the Near East. The ancient inheritance and the expansion of the Arabs. The ascendancy of the Ottoman Turks. The problems raised by the World War. The Arab revolt and the rise of nationalist Arab states. The British and French mandates, with special reference to Palestine and the Zionist movement. Modern Egypt. The problems and actualities of recent years and the present.

79, 80 (old number **81, 82**) — Seminar in historical study. Professor BYRNE. 4 points.

Th. at 4.

Open to students majoring in history upon approval of the department, and recommended for prospective teachers of history.

Readings in the great historians of the nineteenth and twentieth centuries. Introduction to problems in historical criticism.

[**91, 92** (old number **19, 20**) — **The United States since 1890.** Dr. YOUNG. 4 or 6 points.

Prerequisite, Course **9, 10.**

A study of some of the significant developments in American history from 1890 to the election of 1936; consideration of political, social, economic, intellectual, diplomatic, and constitutional aspects of the history of this period; analysis of specific problems with use of source materials.

Not given in 1941-42.]

93, 94 (old number **97, 98**) — **History of American foreign relations.** Dr. YOUNG. 4 or 6 points.

Tu. and Th. at 9.

Preceding or parallel, Course **9, 10.**

International relations of the American people from independence to world power. An attempt to understand the expansive forces of American national life in their relation to an evolving foreign policy. An analysis of the varied international interests of Americans and of such representative policies as isolation, the Monroe Doctrine, the Open Door and the freedom of the seas.

Graduate courses

Note: The following graduate courses in history, offered by the Faculty of Political Science, are open to specially qualified seniors. Written approval in advance of election and registration must be obtained from the chairman of the Barnard section of the Department of History. Ordinarily such approval will be granted only to students who have completed at least 18 points of history in Barnard, but in particular cases the department may consider as equivalent thereto other courses in the social sciences.

***123, 124 — Social and economic history of the Middle Ages.** Professor BYRNE. 6 points.

S., 9-10:15 and a third hour to be arranged. 401 Fayerweather.

Open to qualified seniors. Except on written permission Course **123** is prerequisite for Course **124.**

A study of medieval life from the fifth to the fourteenth century: feudalism, the manor, the gilds, the rise of the towns, the growth of trade and of commercial institutions, education and the universities.

***149-150 — European thought and culture in the nineteenth century.** Full-year course. Professor BARZUN. 6 points.

M. and W. at 10. 302 Fayerweather.

Open to qualified seniors.

A study of the persistent problems of the several arts and philosophy from the French Revolution to the World War. From rationalism through romanticism to the various trends of modernism, the treatment takes account of social and economic factors, but views culture both as cause and as effect in the sequence of history.

***151, 152 — History of nationality and nationalism in Europe.** Professor HAYES. 6 points.

Tu. and Th. at 10 and a third hour to be arranged. 301 Fayerweather.

Open to qualified seniors.

Winter session: An analysis of the principle of nationality and its relation to human nature, physical environment, biological heredity and human culture, followed by a study of the factors accentuating national consciousness in early modern times and a somewhat detailed description of the rise of various nationalist doctrines in the early eighteenth century and until 1815.

Spring session: Nationalist movements since 1815 with attention to their effects on domestic politics and international relations.

***175, 176 — History of Chinese civilization.** Professor GOODRICH. 6 points.

M. and W. at 10. 106 Low.

Open to qualified seniors.

An historical study of Chinese culture from the earliest times to 1800. Political history is studied only in so far as it is needed as a framework and background for an understanding of the cultural history of the people. Special emphasis is given to recent archaeological discoveries in China and Central Asia and to connections between the civilization of China and that of the West.

***181, 182 — American constitutional history.** Professor COMMAGER. 6 points.

Tu. and Th. at 2. 302 Fayerweather.

Winter session: 1787-1860. A survey of American constitutional history with special emphasis on the bases of American constitutionalism, the Federal Convention, the growth of the Supreme Court, problems of states' rights, nationalism, commerce, expansion, slavery, property rights, and the evolution of American constitutional ideas and institutions.

Spring session: 1860-1936. Constitutional problems presented by the Civil War and reconstruction, the significance of the Fourteenth Amendment, the impact of the new industrialism, social legislation and the courts, the constitutional problems of imperialism, the World War, the growth of federal centralization, constitutional issues under the New Deal, and the problem of court reform.

***187, 188 — The establishment of the American nation, 1492-1815.** Professor KROUT. 6 points.

Tu. and Th. at 11 and a third hour to be arranged. 301 Fayerweather.

Open to qualified seniors.

After a survey of the European background of American history and the establishment in the New World of European institutions of contrasted types, attention is fixed upon the English settlements, their development and their experience with the colonial system seeking to protect and control them, resulting finally in revolt, union, and organization of the United States, the struggle for American neutrality, the development of national parties, and the problems of territorial expansion.

Other courses in history numbered 100-200, offered by the Faculty of Political Science, may be taken by qualified Barnard seniors with the approval of the department.

HYGIENE

A1-A2 — Personal hygiene. Full-year Course. Dr. ALSOP. 2 points.

Tu. at 11 (I), at 2 (II); Th. at 1 (III); F. at 11 (IV).

Prescribed for freshmen.

A study of the laws of health.

ITALIAN

A major in Italian. — Students majoring in Italian will be required to take in

Italian — Courses 5, 6; 13, 14; 15-16; 17, 18; 19, 20; 21, 22; 23, 24 and other courses to be arranged in consultation with the department.

Other fields — English 53-54; Fine Arts 51, 52, 62, 65; History 35, 36; Philosophy 61-62. Two years of French or German. Some knowledge of Latin is also desirable.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in Italian will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning the examination will be available on application to the department.

See also Medieval Studies, page 100.

Language courses

1-2 — Elementary full-year course. Professor RICCIO: 3 recitations, 2 hours unprepared work in classroom. 8 points.

M., Tu., W., Th. and F. at 3.

Grammar, reading, composition and conversation.

This course may not be taken parallel to Spanish 1-2.

3-4 — Introductory full-year course. Miss CARBONARA. 3 recitations, 2 hours unprepared work in classroom. 8 points.

M., Tu., W., Th. and F. at 2.

Introduction to Italian language intended primarily for majors in other departments who wish to acquire in one year ability to read masterpieces of Italian literature in the original. This course may not be taken parallel to Spanish 1-2.

[**5, 6 — Practice course.** Miss CARBONARA. 4 points.

This course may be taken for credit in two successive years.

Oral drill: practical phonetics. Reading and recitation aloud of prose and poetry with special emphasis on the rhythm and melody of the spoken language. "Analisi estetica." Conversation, vocabulary building. Written and oral composition.

Not given in 1941-42.]

13, 14 — Practice course.¹ Professor RICCIO. 6 points.

M., W. and F. at 2.

Prerequisite, Course 1-2 or 3-4.

Vocabulary building with special emphasis on conversation and composition based on readings in representative Italian literary works.

Literature courses¹

15-16 — Dante and medieval culture. Full-year course. Miss CARBONARA. 6 points.

Tu. and Th. at 11 and Th. at 1.

Prerequisite, Course 3-4 or 13, 14 or the equivalent.

A study of Dante, his poetry and his times, including practice in the written and spoken language. Reading aloud, emphasis on rhythm and melody of the spoken language. "Analisi estetica" of the most celebrated passages of the *Divine Comedy*.

[**17, 18 — The Italian Renaissance.** Miss CARBONARA. 6 points.

Prerequisite, Course 3-4 or 13, 14 or the equivalent.

Winter session: The rise of despotism in the various Italian states; Petrarch and humanism; the evolution of modern man.

Spring session: Machiavelli and political philosophy; Castiglione and the ideal of the modern gentleman. Ariosto and the Italian chivalric epic. Tasso and the counter-reformation.

Not given in 1941-42.]

19, 20 — Italian civilization. Professors BIGONGIARI, PREZZOLINI and RICCIO and Miss CARBONARA. 6 points.

M., W. and F. at 11.

Open to students of all classes. Conducted in English.

Winter session: A study of Italian culture in the thirteenth and fourteenth centuries with special emphasis on Dante; Petrarch and early humanism.

Spring session: A study of Italian culture from the fifteenth century to modern times with special emphasis on world exploration, the discovery of politics, Renaissance arts and social life, development of music, drama, opera and modern science.

21, 22 — Special reading. Professor RICCIO and Miss CARBONARA. 4 or, with written permission of the instructor, 6 points.

Hours to be arranged.

Required of major students. With the written permission of the department this course may be taken in two successive years.

Discussions on readings in Italian art, history, science, music and letters. Individual reading assignments are generally given in that field of Italian culture most intimately associated with the student's major interests.

¹ All courses excepting 19, 20 are conducted entirely in Italian.

23, 24 — Modern Italian literature. Professor RICCI. 6 points.

W. and F. at 9.

Prerequisite, Course 13, 14 or the equivalent.

Winter session: The development of nineteenth-century literature with particular emphasis on Monti, Alfieri, Foscolo, Manzoni, Leopardi, Carducci, and D'Annunzio.

Spring session: Croce, Palazzeschi, Panzini, and the new theatre of Pirandello, Rosso di San Secondo, Morselli.

[**Italian dramatic literature.** Professors BIGONGIARI and PREZZOLINI and Miss CARBONARA. 6 points. See Comparative Literature 5-6, page 64.

Not given in 1941-42.]

Graduate courses ¹

Note. The following graduate course is open only to qualified seniors after consultation with the Department of Italian at Barnard.

***101-102 — Introduction to the history of Italian literature.** Full-year course. Professor BIGONGIARI. 6 points.

M. and W. at 3 and a third hour to be arranged. 302 Philosophy.

Open only to seniors on written permission of the instructor.

An introductory study of Italian literature with special emphasis on the history of philosophical, religious and scientific questions.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

LATIN. See Greek and Latin.

MATHEMATICS

The courses in mathematics are arranged in two sequences, either of which is suitable for students electing mathematics as a cultural subject.

Sequence A is designed for students whose major interest lies in mathematics or in physics. In the courses of this sequence emphasis is placed on the formal and logical development of the subjects and also on the technic of operations and processes involved.

Sequence B is designed to meet the needs of students whose major interest lies in natural sciences other than physics, or in the social sciences. In the courses of Sequence B emphasis is placed on the practical application of elementary mathematics in the fields of science and social science. The cultural and vocational aspects of trigonometry, analytic geometry, the calculus, elementary mathematical statistics and graphical methods are stressed.

The arrangement of courses in both sequences admits of considerable flexibility. For example, a student who has elected in her freshman year courses in Sequence B can, without any handicap, change to Sequence A at the beginning of her sophomore year. A similar shift may be made from Sequence A to Sequence B, but students must consult the department to avoid duplication of work.

A major in Mathematics. — Students majoring in mathematics will be required to take in

Mathematics — 28 points selected from Sequence A. With the approval of the department courses in Sequence B may also count toward the major.

Other fields — The work will vary with the special interest of the student and must be arranged in consultation with the major department.

Sequence A

1 — Trigonometry. — — —. 3 points.

M., W. and F. at 9.

22 (or 21R) — Analytic geometry. 3 points.

Winter session only: **21R** — Tu., Th. and S. at 10. — — —.

Spring session only: **22** — M., W. and F. at 9. — — —.

Prerequisite, Course 1 or Course 7, Sequence B.

Introduction to the analytic geometry of the plane and of space.

¹ All courses excepting 19, 20 are conducted entirely in Italian.

24 — Algebra and the theory of equations. — — —. 3 points.

Tu., Th. and S. at 10.

Prerequisite, Course 1 or Course 7, Sequence B.

Complex numbers, theory of equations, determinants, series and exponential functions, partial fractions, mathematical induction.

27 — Projective geometry. Professor MULLINS. 3 points.

M., W. and F. at 2.

Prerequisite, Course 22 or Course 7-8, Sequence B.

30 — See Sequence B.

31-32 (or 32R-31R) — Calculus. Full-year course. 6 points.

Entire year: **31-32** — M., W. and F. at 10. Professor MULLINS.

Spring session only: **32R** (equivalent of **31**) — M., W. and F. at 2. Dr. LORCH.

Winter session only: **31R** (equivalent of **32**) — M., W. and F. at 2. Dr. LORCH.

Prerequisite, Course 22 or Course 7-8, Sequence B.

Differential and integral calculus.

33 — Calculus. Dr. LORCH. 3 points.

M., W. and F. at 9.

Prerequisite, Course 31-32.

Continuation of the study of calculus.

44 — The theory of space and time. Dr. LORCH. 3 points.

M., W. and F. at 9.

Prerequisite, Course 31-32.

Foundations of Euclidean geometry; transformations and groups; the special theory of relativity.

46 — Analytic geometry of space and hyperspace. Dr. LORCH. 3 points.

M., W. and F. at 3.

Prerequisite, Course 31-32.

Modern methods in solid analytics. Vectors, matrices, groups, quadratic forms.

47 — Elementary theory of numbers. Dr. LORCH. 3 points.

M., W. and F. at 3.

Prerequisite, Courses 1 and 22 or Course 7-8, Sequence B.

A study of the properties of whole numbers. A variety of important and historically interesting problems will be discussed on an entirely elementary basis. Among the topics to be dealt with are: divisibility; Euclid's algorithm; prime numbers; quadratic residues; diophantine equations; rings and fields.

56 — Differential equations. Professor MULLINS. 3 points.

M., W. and F. at 2.

Prerequisite, Course 33.

An elementary course in differential equations.

[**58 — Higher algebra.** Dr. LORCH. 3 points.

Preceding or parallel, Course 32.

Fields, theory of equations in various fields, symmetric functions, elimination theory. Theory of determinants and matrices, systems of linear equations.

Not given in 1941-42.]

[**133, 134 — Fundamental concepts of modern mathematics.** Professor KASNER. 6 points.

Preceding or parallel, Course **31-32**.

A general survey emphasizing the bearing of higher theories on elementary mathematics and the historical evolution of ideas. Topics treated: transformations and groups, point-sets and topology, imaginary and hypercomplex numbers. Applications to physics.

Not given in 1941-42.]

Courses **133, 134** and **135, 136** are ordinarily given in alternate years.

135, 136 — General introduction to higher mathematics. Professor KASNER. 6 points.

M., W. and F. at 11.

Preceding or parallel, Course **31-32**.

Development of the number system. Modern theory of infinity. Elementary geometry of four dimensions; vector geometry; conformal representation. Groups, finite and continuous. Non-Euclidean and n -dimensional geometry. Mathematical physics.

Sequence B

7-8 — Mathematical analysis. Full-year course. — — —. 6 points.

M., W. and F. at 11 (I) and at 1 (II).

Winter session: Coördinates, graphs, frequency curves, index notation, common logarithms and their application, trigonometry and its application.

Spring session: Analytic geometry: the straight line, the circle, the conic sections and exponential curves. Elementary treatment of the calculus and its application in finding rates, maximum and minimum values and areas. Graphical solution of polynomial equations.

[**30 — Graphical and numerical methods.** Professor MULLINS. 3 points.

Prerequisite, Course **7-8** or Course **22**, Sequence A.

Nomographic charts for calculation, solution of equations by graphical and numerical methods, numerical integration, numerical solutions of differential equations.

Not given in 1941-42.]

MEDIEVAL STUDIES

1-2 — An integrated study of medieval culture from the aspects of fine arts, history, language, literature and philosophy focusing for each student on one or more special subjects. Full-year course. MEMBERS OF THE DEPARTMENTS OF ENGLISH, FINE ARTS, FRENCH, GERMAN, HISTORY, ITALIAN and PHILOSOPHY under the direction of a committee. Chairman for 1941-42, Professor STURTEVANT. 18 points.

Hours to be arranged.

Open to qualified seniors on written permission of the committee in charge. Students wishing to apply for this course must consult the chairman. Preceding or parallel: English **49, 50**, Fine Arts **51, 52**, History **35, 36**, Italian **19**, Philosophy **61** or the equivalents of these courses.

Each student will be assigned to an individual tutorial adviser under whose direction she will pursue a special program of work consisting of such attendance at lectures, individual conferences with members of the faculty, reading, special research, visits to museums, etc., as may seem best for her needs, and making full use of the resources of the University and of the city.

MUSIC

A major in Music. — Students intending to major in music should plan to take Courses **1-2** and **1a, 2a** in the freshman year and Course **31-32** in the sophomore year as these courses are prerequisite to the advanced courses in literature, history and theory which are normally included in a major program.

In general, major programs are planned to include some advanced work both in literature and history and in theory. Applied music courses are counted toward fulfillment of the major but not required. Music majors, whether or not registered in courses in applied music, are expected to participate in the undergraduate musical organizations.

For courses on Folk music and Primitive music, see Anthropology 9, 10 (page 58); Rhythmic analysis, see Physical Education (page 109).

Attendance at the Collegium Musicum meetings is compulsory for all music majors.

Other fields — Courses in other departments, depending upon the need of the individual.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in music will be required to pass a major examination at the end of the senior year. This examination will test general knowledge of the growth and structure of western music, and a knowledge of the more important composers and their relations and contributions to the great epochs in music. It will be given in three parts: (I) three hours in literature and history, (II) three hours in theory, (III) one hour in general musicianship. A selected list of masterworks is recommended for independent outside study.

Practice rooms. The department provides practice rooms for the use of students of organ and piano. Preference is given in assigning hours to those enrolled in courses given by the department. Application for practice time on the piano should be made to the department office, 407 Barnard. Organ students should apply to the Columbia department secretary, 601 Journalism.

Library. The department maintains in Room 701 Journalism a lending library of books and scores available to all students of the University. In addition, phonographs with a large collection of records are available to students. Books, scores and records and a phonograph room are also available at the Barnard College Library.

Literature and history

1-2 — A survey of music. Full-year course. Miss TENNEY. 4 points.

Tu. and Th. at 11 and an additional drill hour Tu. at 3 or Th. at 1 or at an hour to be arranged.

The materials of music. A study of the elements of musical structure designed to form intelligent habits of listening to music. The spring session is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required.

***3 — Beethoven.** Professor MASON. 2 points.

Tu. and Th. at 10. 703 Journalism.

Prerequisite, except on written permission, a grade of A or B in Course **1-2** and **1a or 2aR**. Open to juniors and seniors majoring in music and to specially qualified sophomores on written permission of the department.

A study of Beethoven's symphonies both in their purely musical development and in their broad human significance as a great spiritual expression.

11 — Music of the romantic period. Miss TENNEY. 2 points.

Tu. and Th. at 2. 408 Barnard.

Prerequisite, Course **1-2** or the equivalent.

A study of the esthetics, forms and styles of the romantic composers.

12 — Twentieth-century music. Mrs. CADY. 2 points.

Tu. and Th. at 2. 408 Barnard.

Prerequisite, Course **1-2** or the equivalent.

A study of the esthetics, forms and styles of the chief contemporary composers.

***13-14 — Literature of chamber music.** Full-year course. Professor DITTLER. 4 points.

Tu., 4-6. 602 Journalism.

Prerequisite, Course 1a or 2aR or the equivalent, and sufficient technical ability on piano, string, or wind instruments. Open to juniors and seniors majoring in music and to specially qualified sophomores on written permission of the department.

A study of the literature of chamber music involving class analysis and performance of a selected list of compositions from the seventeenth century to the present day.

15 (old number 16) — The opera. Mrs. CADY. 3 points.

M., W. and F. at 11.

Prerequisite, Course 1-2 or the equivalent.

A rapid survey of the development of opera from Monteverdi to the present day.

16 (old number 15) — The symphony. Mrs. CADY. 3 points.

M., W. and F. at 11.

Prerequisite, Course 1-2 or the equivalent.

A study of symphonic masterpieces from the classic, romantic and modern periods.

***19-20 — Literature of choral music.** Full-year course. Mr. RHODES. 4 points.

Tu. and Th. at 3. 603 Journalism.

Prerequisite, Courses 1 and 1a or the equivalent. Open to juniors and seniors majoring in music.

An examination of selected masterpieces of choral composition from the Middle Ages to the present day, with emphasis on the characteristic styles, and repertory for such groups as oratorio societies, church choirs, cantata clubs, glee clubs, madrigal singers.

***23-24 — History of music.** Full-year course. Professor LANG. 4 points.

Tu. and Th. at 10. 603 Journalism.

Prerequisite, Course 31-32 or the equivalent. Open to juniors and seniors majoring in music.

A rapid survey of the history of music from the beginning of the Christian era to the present.

***107 — Bach.** Professor MOORE. 2 points.

M. and W. at 11. 603 Journalism.

Prerequisite, Course 31-32. Open to seniors majoring in music.

A study of the content, forms and styles of Bach's music.

***110 — Haydn and Mozart.** Professor LANG. 2 points.

M. and W. at 11. 703 Journalism.

Prerequisite, Course 31-32 or the equivalent. Open to seniors majoring in music.

Opera and instrumental music of the Viennese school as seen in the works of the two leading masters.

Collegium Musicum. First and third Mondays of each month at 7:30 p.m. College Parlor, Barnard.

The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces in the literature of music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in the performance of vocal and instrumental music. The literature to be used will embrace music from medieval times up to the present day. Emphasis will be placed upon a variety of compositions and not on finished performance.

Theory

1a, 2a (or 2aR) — Elementary theory. Miss TENNEY.

Entire year: **1a, 2a** — 4 points — Tu. and Th. at 9 and an additional drill hour to be arranged. 602 Journalism.

Spring session only: **2aR** (the equivalent of **1a** — 2 points) — W. and F. at 3 and an additional drill hour to be arranged. 408 Barnard.

A study of rhythmic, melodic and harmonic notation, intervals and chords, preparatory to Course **31-32**. The voice is used continuously as the link between the eye and the inner ear. A good voice is not required, but the student must be able to sing familiar melodies easily and in tune.

31-32 — Elementary harmony. Full-year course. Mrs. CADY. 6 points.

M., W. and F. at 1.

Prerequisite, Courses **1** and **1a** or the equivalent, ability to play a hymn, and the written permission of the instructor.

A study of scales, intervals, triads, tones of figuration, chords of the seventh and ninth, and modulation. One hour each week is devoted to ear training.

***35-36 — Counterpoint.** Full-year course. Professor BINGHAM. 6 points.

M. and F. at 2 and a third hour to be arranged. 602 Journalism.

Prerequisite, except on written permission of the instructor, a grade of A or B in Course **31-32**. Open to juniors and seniors majoring in music.

***37-38 — Advanced harmony and analysis.** Full-year course. Mr. MITCHELL. 6 points.

M., W. and F. at 10. 603 Journalism.

Prerequisite, Course **31-32** or the equivalent. Parallel, advised but not required, Course **35-36**. Open to juniors and seniors majoring in music.

Analytical studies of the structure, rhythm and harmonic content of the chief musical forms from the simple binary and ternary through sonata form.

***39-40 — Composition A.** Full-year course. Professor BINGHAM. 4 points.

M. at 3. 602 Journalism.

Prerequisite, Course **31-32**.

Composition in the smaller forms including songs, choral settings of carols or anthems, piano or organ solos and pieces for violin or other instruments with piano.

***131-132 — Composition B.** Full-year course. Professor BINGHAM. 4 points.

W., 2-4. 602 Journalism.

Prerequisite, Course **35-36** and the written permission of the instructor. Open to seniors majoring in music.

Other advanced courses given at Columbia University and open to seniors majoring in music are described in the Announcement of the Division of Fine Arts, Archaeology and Music.

Applied music

Note. Each course in applied music in order to count toward the degree must be taken parallel to a theoretical or historical course in music.

***63, 64 — University orchestra and band.** Professor DITTLER (orchestra) and Dr. SIMMONS (band). 2 points (see note above).

Orchestra (I), M., 4-6 and W., 7:30-9:45 P.M. 312 Hamilton.

Band (II), Tu., 8-10 P.M. 312 Hamilton.

Properly qualified students are privileged to receive private lessons without special fee in connection with this course.

Open only after consultation during the registration period with Professor DITTLER or Dr. SIMMONS. 601 Journalism.

79, 80 — Vocal instruction. Mme. RYBNER-BARCLAY. 2 points (see note above).

One hour weekly at hours to be arranged. 406 Barnard.

Special fee, \$100 each session.

Individual instruction in voice production and in interpretation.

83, 84 — Organ instruction. Mr. DOERSAM. 2 points (see note above):

Hours to be arranged.

83a, 84a — Private lessons. Special fee, \$100 each session.

83b, 84b — One hour a week in a group of three. Special fee, \$60 each session.

83c, 84c — One hour a week in a group of four. Special fee, \$40 each session.

Open only on written permission of the instructor.

Individual instruction in the technic of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers.

93, 94 — Piano instruction. Mr. FRANK SHERIDAN and Miss ALTA HILL. 2 points (see note above).

Private lessons at hours to be arranged. 406 Barnard.

Section I for advanced students (Mr. SHERIDAN). Special fee, \$160 each session.

Section II for beginners (Miss HILL). Special fee, \$55 each session.

Instruction in the technic of the instrument and in interpretation.

Barnard Glee Club. Mr. JAMES GIDDINGS, director.

All Barnard students are eligible for membership. The repertory will consist chiefly of compositions for women's voices drawn from the literature of the masters and representative contemporary composers and of arrangements of folk music of various countries.

Besides appearances at the College, the Glee Club's schedule includes broadcasts and concerts outside of college, joint programs with men's and other women's colleges and two concerts each season with the Columbia University Glee Club and the Columbia University Orchestra at which more elaborate choral works will be performed.

Rehearsals: M., 5-6:15; W., 7:30-8:45 P.M. First rehearsal M., Sept. 29.

Auditions: M., Sept. 22, 10-12; Tu., Sept. 23, 2-4; W., Sept. 24, 10-12. 408 Barnard.

Barnard and Columbia singers. All students, faculty members, and alumnae of the University are eligible for membership. This chorus is formed for the purpose of providing an opportunity in organized singing for those who are either ineligible for or do not have the time for Glee Club activity. The chorus will participate in two concerts each year, one in December and one in April, joining with the Glee Clubs and the Orchestra for the performance of choral works such as Berlioz's *Requiem*, Bach's cantata, *Sleepers Wake*, and Douglas Moore's opera, *The Devil and Daniel Webster*, which were presented last season. Rehearsals will be held once a week when the University is in session.

Chapel choir. Mr. LOWELL BEVERIDGE, director.

All Barnard students are eligible to sing in the choir. Regular members of the choir are entitled to a compensation.

Services: daily except Saturday, 12-12:20, and Sunday at 11.

Rehearsals: M., W. and F., 5-6. Chapel crypt.

Auditions: M., Sept. 22, 3-5; Tu., Sept. 23, 11-1 and 3-5; W., Sept. 24, 10-12. Chapel crypt.

Columbia Chapel Chorus. Mr. LOWELL BEVERIDGE, director.

All men and women students of the University are eligible for membership in the Columbia Chapel Chorus, which affords an opportunity for the study and performance of larger choral works of a religious nature. Two or more performances, usually assisted by a student orchestra and student soloists, are given in the Chapel each year.

Rehearsals: Tu. 8-9:30 p.m. First rehearsal Tu., Sept. 30.

Auditions: Tu., Sept. 30, 4-6 and 9-10 p.m., Tu., Oct. 7, 7-8 p.m. Chapel crypt.

ORIENTAL CIVILIZATIONS

Courses in Chinese and Japanese language, literature, history, philosophy and art, given at Columbia University and described in the Announcement of the Division of Ancient and Oriental Languages and Literatures, are with the permission of the instructors and the Committee on Instruction of Barnard College, open to properly qualified seniors.

PHILOSOPHY

A major in general philosophy will count in Group III. A major in esthetics will count in Group I. Since courses in esthetics are counted as part of a major in general philosophy, the 14-point requirement in Group I must be satisfied in other subjects. Since courses in general philosophy are counted as part of a major in esthetics, the 14-point requirement in Group III must be satisfied in other subjects. For all except major students courses in philosophy will count toward the 14-point requirement in the group indicated for each course by the statement made in connection with the point value.

A major in Philosophy. — This may be either one of two fields:

A — In general philosophy which will include Courses 1, 12, 61-62 and other courses to be arranged in consultation with the department; or

B — In esthetics which will include Courses 41-42, 45, 46, 53, 54, 61-62, and other courses to be arranged in consultation with the department, usually including certain courses in literature, fine arts or music, according to the special interests of the individual student.

Major examination. — Beginning with the members of the class of 1943, who choose their majors

in the spring of 1941, all students majoring in philosophy will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning this examination will be available on application to the department.

See also Medieval Studies, page 100.

1 (or 2) — Introduction to philosophy. 3 points either session in Group III.

Winter session:

1 — M., W. and F. at 9 (I). Professor PARKHURST.

M., W. and F. at 11 (II). Professor MONTAGUE.

Tu., Th. and S. at 9 (III), for freshmen only. Dr. RICH.

Spring session:

2 — M., W. and F. at 9 (I). Professor PARKHURST.

Tu., Th. and S. at 9 (II) for freshmen only. Dr. RICH.

[3-4 — Logic, inductive and deductive.] Full-year course. Professor MONTAGUE. 4 points in Group II or III.

A survey of the principles of Aristotelian logic.

Not given in 1941-42.]

12 — The metaphysics of life and mind. Professor MONTAGUE and Dr. RICH. 3 points in Group III.

M., W. and F. at 11.

Prerequisite, Course 1 or the equivalent.

21-22 — Radical and conservative morals. Full-year course. Professor MONTAGUE. 4 points in Group III.

M. and W. at 10.

Open to juniors and seniors and to qualified sophomores on written permission of the department.

A study of contemporary ideals of individual life and social institutions.

23, 24 — Readings in the history of ethics. Dr. RICH. 2 points in Group III.

Hour to be arranged for individual conferences for the discussion of important texts.

This course may be taken only in connection with Course 21-22.

41-42 — General esthetics. Full-year course. Professor PARKHURST. 6 points in Group I.

Tu. and Th. at 9.

Open to juniors and seniors and to qualified sophomores on written permission of the department.

Winter session: A survey of the major arts — music, architecture, painting, sculpture, poetry, drama, prose fiction and the dance — with special consideration of their similarities and differences in subject matter and form.

Spring session: An analysis of theories as to the origins of art, and consideration of creative imagination, of esthetic experience and of the nature of the beautiful, the sublime, the tragic and the comic.

45, 46 — The esthetics of prose and poetry. Professor PARKHURST. 4 points in Group I.

Tu. and Th. at 11.

A study of prose and poetic rhythms, stanzaic patterns, poetic words and the nature of metaphor. A number of very short exercises in translation and description will be required.

53, 54 — Readings in the history of esthetic theory. Professor PARKHURST. 2 points in Group I.

Hour to be arranged for individual conferences for the discussion of important texts.

This course may be taken only in connection with some other course in esthetics.

61-62 — The history of philosophy. Full-year course. Professor MONTAGUE and Dr. RICH. 6 points in Group III.

M., W. and F. at 9.

Open to juniors and seniors and to qualified sophomores on written permission of the department.

63, 64 — Readings in the history of philosophy. Dr. RICH. 2 points in Group III.

Hour to be arranged for individual or group conferences for the discussion of important texts.

This course may be taken only in connection with some other course in philosophy.

67 — British philosophy from Francis Bacon to John Stuart Mill. Dr. RICH. 3 points in Group III.

M. and W. at 1 and a conference hour to be arranged.

Prerequisite, Course **61-62**.

The development of philosophical, political and religious theories in this period, with particular emphasis on the ideas of the eighteenth century and the background from which they arose.

68 — French philosophy in the eighteenth and nineteenth centuries. Dr. RICH. 3 points in Group III.

M. and W. at 1 and a conference hour to be arranged.

Preceding or parallel, Course **61-62** and the written permission of the instructor.

A study of the writings and influence of such figures as Voltaire, Rousseau, Condillac and the Encyclopaedists, and of the eighteenth-century struggle against dogmatism in church and state, and of such nineteenth-century figures as Maine de Biran, Cousin and Auguste Comte.

70 — Contemporary philosophy. Dr. RICH. 3 points in Group III:

Tu. and Th. at 10 and a third hour to be arranged.

Prerequisite, Courses **1** and **12** or **61-62**.

145-146 — Esthetics of medieval religion, art and symbolism. Full-year course. Professor PARKHURST. 6 points in Group I.

Tu. and Th. at 10. 37 Milbank.

Open to seniors and, on written permission of the department, to qualified juniors.

A study of the culture of the Middle Ages as epitomized in the ritual, pictorial art, music and symbolism of the Gothic cathedral and in the doctrines of some of the more important medieval philosophers.

PHYSICAL EDUCATION

Aims and objectives. — The program provides the students with wholesome activity while in college. In addition, however, the program will help the

students not only in the cultivation of certain personal skills which will be useful to them as adults, but also in the acquisition of such habits and attitudes, such knowledge and appreciation as will tend to make them progressively more self-directing in all problems relating to health, recreation, leisure time pursuits and social relationships.

In addition to the medical certificate which the student presents before admission, a physical and medical examination at college is required of all students at entrance.

There is a prescribed dance and sports costume for all work, approximate cost, \$7; swimming suits, \$1.50. For further information inquire at Barnard Hall, Room 209.

A1, A2 — Rhythmic and skill fundamentals, body mechanics and correction of remediable defects are stressed.¹ 2 hours.

M. and W. at 10 (I), at 11 (II), at 2 (III), at 3 (IV).

And sports, games, dancing or swimming. 1 hour.

Hour to be arranged on Tu., Th. or F.

Prescribed for freshmen.

A course in personal hygiene (Hygiene **A1-A2**) is also prescribed for freshmen (see page 96).

As soon as possible after the medical and physical tests are completed, each freshman will be given a motor capacity test and a classification test in swimming. The test results will be used as a partial basis for deciding the type of physical activity the student will participate in.

A medical and physical examination, a motor capacity test and a swimming test will be required at the end of the spring session.

This combined program forms an *orientation* course for freshmen. A syllabus is used and some outside reading is required.

B1, B2 — Sports, games, dancing, individual gymnastics and other activities,¹ including remedial and corrective work. 3 hours.

The type of activity offered will vary with the season and a student's choice should be governed by her health status, her defects, her interests and her preferences. See *Syllabus* for full statement.

Sophomores are required to take two of their three hours on Tu. and Th. The three hours must be taken on different days.

Prescribed for sophomores.

C1, C2 — Sports, games, dancing and swimming,¹ to be elected in any authorized activity, depending upon the student's physical condition, her interests and her preferences. Specific activity will be prescribed only in special cases.

M. to F. inclusive at hours to be arranged on different days. 2 hours.

Prescribed for juniors.

D1, D2 — Sports, games, dancing and swimming.¹ Substitution of approved activities will be allowed in special cases.

M. to F. inclusive at hours to be arranged on different days. 2 hours.

Prescribed for seniors.

¹ See program in Barnard Hall.

All Activities classes are arranged on skill levels, beginning, intermediate and advanced and students should register accordingly.

Within the "time requirement," a group achievement plan has been set up. Students who fulfill these group requirements are excused from supervised activity during their senior year, provided they are in good physical condition and have no remediable defects. See *Syllabus* for full details.

A course in *Rhythmic Analysis* designed to show the relationship between music and the dance will be offered in the winter session. (Consult Professor Streng.)

Students wishing to take up physical education as a profession are advised to consult Professor Wayman early in their college career. It is not possible to major in physical education, but a course of study can be planned which will help to shorten post-graduate study in that field.

Students wishing to qualify as *camp councillors* or *social workers* are urged to choose their electives accordingly. A series of pertinent lectures will be given during the second term and an intensive course for student councillors for Barnard College Camp will be given at camp in June after the close of college. (Consult Miss Holland.)

The *Red Cross Life Saving Course* and tests will be given each session and may be counted as a regular elective.

Special attention will be given to the development of *student officials* for sports and games.

101, 102 — Dancing, sports, games and swimming for women graduate students under the Faculties of Philosophy, Political Science and Pure Science, and women students in the professional schools of the University (excepting Teachers College). 3 hours. 1 point each session.

All regular sections are open provided the registration is not already filled by undergraduate students. Graduate students who wish credit must take work in classes in which instruction is given and should avoid "open hour" sections.

PHYSICS

A major in Physics. — Students majoring in physics will be required to take in

Physics — Courses to be arranged in consultation with the department.

Other fields — Mathematics: Through the differential and integral calculus and, if possible, differential equations. Two semesters of calculus should be completed by the beginning of the junior year.

Chemistry — one year's work.

A course in the biological sciences is recommended.

A reading knowledge of French and German by graduation.

11-12 — General physics. Full-year course. Professor BOORSE and Dr. TOWNSEND. 8 or 9 points.

Lectures: M., W. and F. at 11.

Laboratory: For students electing 8 points, 2 hours each session; for students electing 9 points, 2 hours winter session, 4 hours spring session. M., 2-4; Tu., 9-11, 2-4; Th., 1-3, and, if more than 56 students elect the course, F., 2-4.

Premedical students are advised to take the course for 9 points.

Preceding or parallel, Mathematics 1 or 7-8. Open to all students.

17 — Modern physics. Professor BOORSE. 3 points.

M., W. and F. at 9.

Prerequisite, Course **11-12**.

An elementary survey of the development of atomic theory from Dalton up to the present time with special emphasis on the Rutherford-Bohr atom and its modification as demanded by contemporary advances. A brief treatment is then given of ionization of gases, spectroscopy, photoelectricity, X-rays, radioactivity, isotopes, cosmic rays and transmutation of the elements.

19 (or 20R) — Photography. Dr. TOWNSEND. 3 points either session.

Winter session only: **19** } Lecture (1 hour) and laboratory (6 hours) to be
Spring session only: **20R** } arranged for both courses.

Prerequisite, Course **11-12**, except on written permission of the instructor.

The theories of optics as applied to photography and photo-micrography. The principles of still and motion picture photography; infra-red, ultra-violet and X-ray photography. The theory of color photography.

31 — Mechanics. Dr. TOWNSEND. 4 points.

M., W. and F. at 9 (or hour to be arranged) and 2 hours of laboratory work.

Prerequisite, Course **11-12**, except on written permission of the department.

34 — Light. Dr. TOWNSEND. 4 points.

M., W. and F. at 9 (or hour to be arranged) and 2 hours of laboratory work.

Prerequisite, Course **11-12**.

36 — Electricity and magnetism. Professor BOORSE or Dr. TOWNSEND. 4 points.

M., W. and F. at 1 (or hour to be arranged) and 2 hours of laboratory work.

Prerequisite, Course **11-12**.

37, 38 — Supplementary laboratory work. Professor BOORSE and Dr. TOWNSEND. Hours and credit by arrangement.

Supplementary laboratory work in mechanics, heat, light or electricity, electronics, and the properties of vacuum tubes may be arranged in consultation with the instructors.

40 — Heat and introduction to thermodynamics. Professor BOORSE. 4 points. Hours to be arranged.

Prerequisite, Courses **31** and **36**, except on written permission of the department. Preceding or parallel, Mathematics **31-32**.

105, 106 — Selected topics in modern physics. Professor BOORSE. 6 points.

Hours to be arranged.

Open only on written permission of the department.

A seminar course in mathematical physics open to those students who have completed the departmental offering, or to especially qualified students who wish to investigate in detail one field of physics or one line of current research.

PSYCHOLOGY

A major in psychology will satisfy the requirement in Group II. Students majoring in this subject must satisfy the 14-point requirement in Group III in subjects other than psychology. For other students, courses in psychology will count toward

the requirement in the group indicated for each course by the statement made in connection with the point value.

A major in Psychology. — Students majoring in psychology will be required to take in

Psychology — Courses 1; 7-8; and the additional points with the advice of the department.

Other fields — One year in philosophy (6 points); one year (8 points) in another laboratory science and an organized program in other fields to be arranged in consultation with the department.

Sequence of courses:

Courses 1 or 2, 19 or 27, 23, 24, 28 make a good grouping for students interested in education. Courses 1 or 2, 19 or 27, 22, 23, 24, 28, 37 meet the interest of students in the social sciences, social work, business and practical affairs.

Courses 1 or 2, 7-8, 19, 22, 23, 48, 117, 119 constitute a good background for more advanced work in psychology and related fields.

1 (or 2) — Introduction to psychology. 4 points either session in Group III.

Winter session:

1 — M., W. and F. at 9(I). Mr. ANDREWS.

M., W. and F. at 10(II). Professor YOUTZ.

Tu., Th. and S. at 9(III) for freshmen only. Dr. SARGENT.

Spring session:

2 — M., W. and F. at 10(I). Mr. ANDREWS.

M., W. and F. at 11(II). Mr. McHUGH.

Tu., Th. and S. at 9(III) for freshmen only. Dr. SARGENT.

An introduction to the chief facts, principles and problems of normal adult psychology, through systematic study of a text, lectures, exercises and reading in special fields. This course is prerequisite for all other courses in psychology and in education.

3 — Mental adjustment laboratory. Mr. McHUGH. No academic credit.

F., 1-4.

Conferences for students who may have difficulties in adjustment to problems of mental health, educational achievement, and vocational or avocational guidance. Interested students should consult the instructor early in the term.

May include an analysis, by objective tests and standard scales, of the aptitudes, interests, attitudes, methods of study, and other traits, of each student, with a view to providing information that may be practically useful to each individual.

7-8 — Experimental psychology. Full-year course. 8 points in Group II.
(Written permission required for specific section.)

M. and W., 1-4 (I) limited to 20 students. Professor YOUTZ.

M. and W., 1-4 (II) limited to 12 students. Mr. ANDREWS.

Tu. and Th., 2-5 (III) limited to 20 students. Dr. SARGENT.

Tu. and Th., 2-5 (IV) limited to 12 students. Mr. McHUGH.

Prerequisite, Course 1 or the equivalent.

The course presents the chief problems, methods and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology.

19 — Developmental psychology. Professor HOLLINGWORTH. 3 points in Group II.

Tu. and Th. at 11.

Open to juniors and seniors who have had Course 1 or the equivalent. Cannot be elected if Course 27 is taken.

A survey of mental origins, of the developmental stages of human life through infancy, childhood, youth, maturity and old age, with special reference to biological, psychological and social factors in individual growth and adjustment and to the formulation of general developmental laws. Special reading will be directed toward the psychology of childhood and adolescence.

22 — Abnormal psychology. Professor YOUTZ. 3 points in Group II:
Tu. and Th. at 11.

Open to juniors and seniors who have had Course **19** or **27**.

A general survey of the field of psychopathology, the history of the subject, the more common forms of mental inadequacy and disturbance and their psychological interpretation, including the principles of mental hygiene and psychotherapy.

23 (old number **26**) — **Differential psychology.** Dr. SARGENT. 2 points in Group II.

Tu. and Th. at 10.

Prerequisite, Course **1** or the equivalent.

A survey of the field of mental testing and of the factors underlying individual differences in intellectual as well as personality traits, followed by a critical analysis of the major findings on sex differences and on racial, national and cultural differences.

24 — Applied psychology. Dr. SARGENT. 2 or 3 points in Group II.

Tu. and Th. at 10.

Prerequisite, Course **1** or the equivalent.

Applications of psychology to problems of vocational guidance and selection, industrial management and efficiency of work, advertising and selling, detection and treatment of delinquents and criminals and other miscellaneous problems of practical interest.

27 — Psychology of childhood. Mr. McHUGH. 3 points in Group III.

M., W. and F. at 10.

Prerequisite, Course **1** or the equivalent. Cannot be elected if Course **19** is taken.

A detailed study of the practical problems of infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Individual work with children.

28 — Psychology of adolescence. Mr. McHUGH. 3 points in Group III.

M., W. and F. at 10.

Prerequisite, Course **19** or **27**. Not open for credit to students who took Education **52ES** in 1940-41.

The mental, social, moral and emotional development of adolescence and youth will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation, delinquency and development for citizenship. Individual work with adolescent children.

37 — Social psychology. Professor YOUTZ. 2 or 3 points in Group III.

M. and W. at 11 (2 points); additional conference hour to be arranged (3 points).

Prerequisite, Course **1** or the equivalent.

An analysis of the psychological principles underlying social behavior, the influence of the group upon individual behavior and the development of social relations in the individual; attitudes and beliefs; examination of experimental methods and results.

48 — Advanced experimental problems. Professor YOUTZ. 2 points in Group II.
Hours to be arranged.

Open on written permission of the instructor only to majors who have had Course **7-8**.

Investigations of reasoning, problem-solving, and related topics. After a brief survey of the field by the instructor, individual experiments will be planned and undertaken. Designed chiefly for students who show signs of interest and capability in the conduct of research.

117 — Psychological seminar. Professor HOLLINGWORTH. 3 points in Group II.

Tu., 2-4.

Open only to majors who have had Course 7-8.

The instructor surveys the researches undertaken by the Barnard department. Each student reports on subsequent developments and related investigations and becomes acquainted with some of the original studies. Of interest chiefly to those who expect to do advanced work in psychology or related fields.

119 (old number 118) — Systematic psychology. Professor HOLLINGWORTH. 3 points in Group II.

Th., 2-4 for lectures and discussions.

Open only to majors who have had Course 7-8.

A comparative and critical survey of the more influential points of view in psychology, with an endeavor to organize them into a consistent system of facts and principles. The instructor reviews contemporary viewpoints on selected representative topics and each student makes and reports a critical examination of some one system or school of psychology.

PUBLIC ADMINISTRATION. See Government.

RELIGION

A major in Religion. — Students majoring in religion will be required to take the following courses in

Religion — Courses 1, 2, 3, 4, and 6 further points in religion. (They are advised to take 1, 2 and 3, 4 as 6-point courses.)

Other fields — Philosophy 61-62; and at least 6 further points, selected in consultation with the department from courses such as: Anthropology 14; Fine Arts 90; and others in accordance with individual requirements.

Majors are also advised to consult with the department regarding the selection of courses outside these requirements, since work done in such fields as philosophy, psychology, anthropology, history, social sciences, literature and fine arts can be so chosen as to contribute substantially to the study of religion.

Major examination. — Beginning with the members of the class of 1943, who choose their majors in the spring of 1941, all students majoring in religion will be required to pass a major examination in addition to taking the courses mentioned above. This examination will consist of two parts, one of which will be in certain common portions of the history of religion and the other according to the work pursued by the individual student.

1, 2 — The Bible. Chaplain KNOX. 4 points; 6 points for majors in religion if taken in junior or senior year.

Tu. and Th. at 11.

Course 2 is a continuation of Course 1, but either course may be taken separately.

A comprehensive study of the Bible in the light of present-day scholarship. Classroom exercises will follow a printed syllabus.

Winter session: How the Bible came to be, famous translations, the stories of Genesis, the lives and teachings of the prophets; the growth of religious ideas and ethical standards throughout Biblical history.

Spring session: The books of Job, Jonah and Daniel of the Old Testament and the study of the New Testament; how the Gospels were written; the life and teachings of Jesus, the letters of Paul and the Book of Revelation.

[**3 — Not given in 1941-42.]**

4 — A study of religions. Professor FRIESS. 4 or, with written permission of the instructor, 6 points.

Tu. and Th. at 2.

Open to all excepting freshmen.

Investigation and discussion of the forms and functions which religion has assumed historically and in contemporary society. The material will be drawn chiefly from the cultures of the Far East. Readings in primary sources and critical literature; photographs and slides illustrating the ceremonial practices and religious art of the major traditions.

5, 6 (old number **5a, 6a**) — **The historical background and early development of Christianity.** Mrs. NIEBUHR. 4 or, with written permission of the instructor, 6 points.

M. and W. at 2.

A study of the historical, philosophical and religious background of Christianity. The world into which it came. Hellenism and Judaism of the pre-Christian era. Answers to the quest for salvation. Forms of the Christian answer in the first centuries. Their relation to contemporary thought. The Greek and the Latin tradition in the church. The relation of pre-Christian and Christian thought to contemporary problems.

Winter session: Post-exilic Judaism. Graeco-Roman culture. The religious and philosophical systems of Hellenism. The Christian gospel of the New Testament.

Spring session: The developing gospel. Early writers in the church; their purpose and relation to the thought of their age. Controversies and heresies. The great formulators of Christian thought to Augustine.

7, 8 — The western religious mind. Mr. BOLMAN. 4 or, with written permission of the instructor, 6 points.

Tu. and Th. at 10.

The development of western religious thought, its principal views of human nature and its social expressions in western civilization. The relevance of persistent religious ideas for the individual and society will be evaluated throughout the course.

Winter session: The development from Judaism and Greek thought through the Renaissance and the Reformation.

Spring session: The theme is pursued through modern views of religion with special reference to those elements in philosophy, social theory, art and psychology which most significantly affected the religious tradition.

9, 10 — Religion and life: a colloquium. Professor FRIESS, Mrs. NIEBUHR, and Mr. BOLMAN. 4 points.

M. and W. at 3.

Open to students of all classes.

This course brings contemporary ideas and knowledge to bear upon the discussion of the following themes:

1. The nature of religion — its functions, forms, and content in relation to various conditions of life.

2. The significance of religious differences — the kinds of differences and their bases; critical consideration of various attitudes toward religious differences.

3. Contemporary issues in religion — humanitarianism and theology; religion in relation to human progress; individualism and authority; religion, politics, and social change.

SEMITIC LANGUAGES

Courses in Hebrew and Arabic language, literature, history, given at Columbia University and described in the Announcement of the Division of Ancient and Oriental Languages and Literatures, are, with the permission of the instructors and the Committee on Instruction of Barnard College, open to properly qualified seniors.

SLAVONIC LANGUAGES

Courses in Russian literature in translation and Russian language, given at Columbia University and described respectively in the Announcement of the Division of Modern Languages and Literatures and in the Announcement of University Classes, are, with the permission of the instructors and the Committee on Instruction of Barnard College, open to properly qualified seniors.

SOCIOLOGY. See Economics and Social Science.

SPANISH

A major in Spanish. — Students majoring in Spanish will be required to take in

Spanish — Courses 3, 4 or 5, 6; 13, 14, 15, 16, 21, 22; and either 17-18 or a more advanced course to be chosen in consultation with the department.

Other fields — Courses will vary with the special interest of the student and should be arranged in consultation with the major department. Courses especially recommended: History 1-2, 35, 36, and 51, 52; two years of French.

Major examination. — Beginning with the members of the class of 1943, who choose their majors

in the spring of 1941, all students majoring in Spanish will be required to pass a major examination in addition to taking the courses mentioned above. Information concerning this examination will be available on application to the department.

Language courses

1-2 — Elementary full-year course. Mrs. DEL RÍO and Miss ARROYO. 6 points.
M., W. and F. at 9 (I and II), at 11 (III) and at 2 (IV).

Grammar, reading, oral reports.

This course may not be taken parallel to Italian 1-2 or 3-4.

3, 4 — Advanced course. Professor MARCIAL-DORADO, Mrs. DEL RÍO and Miss ARROYO. 6 points.

M., W. and F. at 11 (I), at 1 (II), at 2 (III).

Prerequisite for Course 3, Course 1-2 or two years of high-school Spanish.

Prerequisite for Course 4, Course 3 or three years of high-school Spanish.

A rapid review of grammar and syntax, the reading of typical works by modern authors; reports and conversation.

5, 6 — Spanish composition. Miss ARROYO. 4 points.

Tu. and Th. at 10.

Prerequisite, Course 3.

[**7, 8 — Advanced Spanish composition.** Miss ARROYO. 4 or, with written permission of the instructor, 6 points.

Prerequisite, Course 3, 4 or 5, 6.

A practical course on modern Spanish usage. Social and economic conditions in Latin America will be used as topics for oral and written work.

Not given in 1941-42.]

9-10 — Elementary Spanish conversation. Miss ARROYO. 2 points for the year if taken parallel to another Spanish course in either session.

Th. at 1.

Full-year course, divisible only for students who are taking another Spanish course.

11-12 — Advanced Spanish conversation. Mrs. DEL RÍO. 2 points for the year if taken parallel to another Spanish course in either session.

Th. at 1.

Full-year course, divisible only for students who are taking another Spanish course.

Discussions and reports on Spanish subjects.

Literature courses¹

13, 14 — The culture of the Spanish countries. Professor MARCIAL-DORADO. 4 or, with written permission of the instructor, 6 points.

M. and W. at 1.

Prerequisite, Course 3, 4 or 5, 6.

Winter session: The history of Spain as a basis for the study of Spanish literature.

Spring session: The development of Latin-American culture.

¹ All courses are conducted entirely in Spanish.

15, 16 — Introduction to Spanish literature. Professor MARCIAL-DORADO. 6 or, with written permission of the instructor, 8 points.

M., W. and F. at 10.

Prerequisite, Course 3, 4 or 5, 6.

Lectures on the history of Spanish literature, and reading of selected works by representative authors. Cervantes, Lope de Vega, Calderón, Tirso and others. Discussions and reports.

[**17-18 — The Spanish drama of the Golden Age.** Full-year course. Mrs. DEL RÍO. 6 points.

Prerequisite, Course 15, 16.

The Spanish drama of the seventeenth century; reading and discussion of representative plays.

Not given in 1941-42.]

[**19-20 — Spanish literature in the nineteenth century.** Full-year course. Mrs. DEL RÍO. 6 points.

Prerequisite, Course 15, 16.

Winter session: The romantic movement and lyric poetry.

Spring session: Development of the novel.

Not given in 1941-42.]

21, 22 — Contemporary Spanish literature. Mrs. DEL RÍO. 6 points.

Tu. and Th. at 11, and a third hour to be arranged.

Prerequisite, Course 13, 14 or 15, 16.

24 — Latin-American literature. — — —. 3 points.

M. and W. at 2.

Prerequisite, Course 13, 14 or 15, 16 except on written permission of the department.

Contributions of Spain to world literature. Professor DE ONÍS. 3 points. See Comparative Literature 7 (page 63).

The great masterpieces of Spanish literature, with special attention to the relations of the literature of Spain and Spanish America and that of England and the United States.

*Graduate courses*¹

Note. The following graduate courses are open only to qualified seniors after consultation with the Department of Spanish at Barnard.

***103-104 — Historia de la lengua española.** Professor NAVARRO TOMÁS. 6 points.

M. and Th. at 5. 307 Philosophy.

Open to qualified seniors.

[***169-170 — Spanish folklore.** Professor DE ONÍS. 4 points.

Open to qualified seniors.

Not given in 1941-42.]

Other courses given in Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

¹ All courses are conducted entirely in Spanish.

ZOOLOGY

A major in Zoölogy. — Students majoring in zoölogy will be required to take in

Zoölogy — Course 1-2 and other courses in combination or in sequence which will vary with the individual interest and purpose of the student and should be arranged in consultation with the department.

Other fields — The work will vary with the special interest of the student and should be arranged in consultation with the major department.

1-2 — General biology and general zoölogy. Full-year elementary course. Professor CRAMPTON, and Mrs. NIX, Miss MERRILL, Mrs. RYAN and Miss TAYLOR. 8 points.

Lectures: Tu. and Th. at 2. Laboratory (4 hours): Tu. and Th., 9-11 or 10-12, or 3-5, or W. and F., 2-4.

5, 6 — Evolution and heredity. Professor LOWTHER (winter session), Professor CRAMPTON (spring session). 4 points.

Tu. and Th. at 10.

Prerequisite, Course 1-2.

9-10 — Human biology. Full-year course. Professor LOWTHER. 6 points.

Lectures: Tu. and Th. at 2. Conference and demonstrations: F., 2-4.

Open to students of all classes. Will not satisfy the requirement of a laboratory science.

An elementary course designed especially for students whose interests are not primarily zoölogical.

13 — Histology and histological methods. Dr. FORBES. 5 points.

Lectures: Tu. and Th. at 11. Laboratory and conferences (6 hours): M. and W., or Tu. and Th., 2-5.

Prerequisite, Course 1-2.

14 — Embryology and embryological methods. Dr. FORBES. 3 or 5 points, to be arranged with the department before registration.

Lectures: Tu. and Th. at 11. Laboratory: For students taking 3 points (2 hours), F., 2-4; for students taking 5 points (6 hours), Tu. and Th., 2-5.

Prerequisite, Course 1-2.

[**22 — Animal ecology.** Mrs. WORLEY. 4 points.

Prerequisite, Course 1-2.

General principles of ecology with special reference to the New York region. Recommended for students interested in further biological research and teaching.

Not given in 1941-42.]

30 — Biology of the endocrine organs. Dr. FORBES. 3 points.

Tu. and Th. at 9 and a third hour to be arranged for conferences and demonstrations.

Prerequisite, Courses 1-2 and 13 and Chemistry 5-6. Preceding or parallel, Course 14. Open to seniors and to qualified juniors on written permission of the department.

The structure, embryology and evolutionary history of the endocrine glands with special emphasis on their control of development.

97-98 — Comparative morphology and physiology of vertebrates. Full-year course. Professors GREGORY and LOWTHER and Miss MERRILL. 12 points.

Lectures: M., W. and F. at 10. Laboratory (6 hours): M. and W., 2-5 or Tu. and Th., 2-5.

Prerequisite, Course **1-2** and Chemistry **5-6**.

Practical course in dissection and experimentation, with special reference to the mammalia. Recommended for pre-medical students and technicians.

151 — Physiology. Professor GREGORY and Miss MERRILL. 6 points.

Lectures: M., W. and F. at 11. Laboratory (6 hours): Tu. and Th., 9-12: Prerequisite Course **1-2** and Chemistry **5-6**.

Open to seniors.

General principles of animal physiology.

Physiological chemistry. Dr. DOWNES. 6 points.

See Chemistry **156**, page 63.

161, 162 — Advanced invertebrate and vertebrate morphology, physiology, histology and embryology. Professors CRAMPTON, GREGORY and LOWTHER and Dr. FORBES.

Hours and credit by arrangement.

Work will be planned to suit the needs of students after consultation with the instructors.

SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
A.M. 9	Chemistry 41-42 Chemistry 42a Economics 1-2 (IV) English 53-54 French 1-2 French 5, 6 (I) French 5x, 6x (I) French 7, 8 (I) German 1-2 (I) German 3, 4 (I) German 36 German 51 Government 1, 2 (II) History 1-2 (I) History 5, 6 Latin 3, 4 Latin 21, 22 Mathematics 1, 22 Mathematics 33 Mathematics 44 Philosophy 1 (I) or 2 (I) Philosophy 61-62 Physics 17 Physics 31, 34 Psychology 1 (I) Spanish 1-2 (I, II)	Botany 53-54 Economics 15, 16 *Economics b114 English 25-26 French 1-2 French 3, 4 (II) Geography 1-2 German 1-2 (III) German 17 German 28 Government 7, 8 History 55-56 History 93, 94 Latin 27, 28 Music 1a, 2a Philosophy 1 (III) or 2 (II) Philosophy 41-42 Psychology 1 (III) or 2 (III) Zoölogy 30	Chemistry 41-42 Chemistry 42a Economics 1-2 (IV) English 53-54 French 1-2 French 5, 6 (I) French 5x, 6x (I) French 7, 8 (I) German 1-2 (I) German 3, 4 (I) German 36 German 51 Government 1, 2 (II) History 1-2 (I) History 5, 6 Italian 23, 24 Latin 3, 4 Latin 21, 22 Mathematics 1, 22 Mathematics 33 Mathematics 44 Philosophy 1 (I) or 2 (I) Philosophy 61-62 Physics 17 Physics 31, 34 Psychology 1 (I) Spanish 1-2 (I, II)
10	American Studies 1-2 Chemistry 63, 64 Chemistry 106 Economics 1-2 (I) Economics 21, 22 English A (Ia, b, c) English A (IVa) English 71, 72 Fine Arts 41 Fine Arts 67 (I) Fine Arts 90 French 5, 6 (II) French 5x, 6x (II) French 7, 8 (II) French 21-22 French 23-24 German 7, 8 Greek 11, 12 History 51, 52 *History 149-150 *History 175, 176 Mathematics 31-32 *Music 37-38 Philosophy 21-22 Psychology 1 (II) or 2 (I) Psychology 27, 28 Spanish 15, 16 Zoölogy 97-98	Chemistry 5-6 Classical Civilization 49, 50 Economics 17, 18 English A (Va) English 3, 4 English 39, 40 English 61-62 English 77-78 Fine Arts 1-2 Fine Arts 62 French 9, 10 French 15, 16 Geology 3, 4 German 9, 10 History 35, 36 *History 151, 152 Mathematics 21R Mathematics 24 *Music 3 *Music 23-24 Philosophy 70 Philosophy 145-146 Psychology 23, 24 Religion 7, 8 Spanish 5, 6 Zoölogy 5, 6	American Studies 1-2 Chemistry 63, 64 Chemistry 106 Economics 1-2 (I) Economics 21, 22 English A (Ia, b, c) English 71, 72 Fine Arts 41 Fine Arts 67 (I) Fine Arts 90 French 5, 6 (II) French 5x, 6x (II) French 7, 8 (II) French 21-22 French 23-24 German 7, 8 Greek 11, 12 History 51, 52 *History 149-150 *History 175, 176 Mathematics 31-32 *Music 37-38 Philosophy 21-22 Psychology 1 (II) or 2 (I) Psychology 27-28 Spanish 15, 16 Zoölogy 97-98
11	Anthropology 13, 14 Chemistry 145, 146 Chemistry 156 Economics 27, 28 English 21-22 (I) English 73, 74 Fine Arts 67 (II) *Fine Arts 153 (11-12:15) French 5, 6 (III) French 5x, 6x (III) French 33, 34 French 125-126 German 3, 4 (II) German 5, 6 Government 4 Government 13 History 1-2 (II, III) History 9, 10 Italian 19, 20 Mathematics 7-8 (I) Mathematics 135, 136 Music 15, 16 *Music 107 *Music 110 Philosophy 1 (II) Philosophy 12 Physics 11-12 Psychology 2 (II) Psychology 37 Sociology 1-2 Spanish 1-2 (III) Spanish 3, 4 (I) Zoölogy 151	*Astronomy 1-2 Botany 51-52 Botany 153, 58 Classical Civilization 55, 56 Economics 1-2 (III) Economics 13, 14 *Economics 161 English A (IVa) English A (VIa, b) English 49, 50 English 67, 68 Fine Arts 65, 66 *Fine Arts 176 (11-12:15) French 31, 32 French 34a Geology 1-2 German 25, 26 Greek 25, 26 History 1-2 (IV) *History 187, 188 Hygiene A1-A2 (I) Italian 15-16 Music 1-2 Philosophy 45, 46 Psychology 19, 22 Religion 1, 2 Spanish 21, 22 Zoölogy 13, 14	Anthropology 13, 14 Chemistry 145, 146 Chemistry 156 Economics 27, 28 English 21-22 (I) English 73, 74 Fine Arts 67 (II) *Fine Arts 153 (11-12:15) French 5, 6 (III) French 5x, 6x (III) French 33, 34 French 125-126 German 3, 4 (II) German 5, 6 Government 4 Government 13 History 1-2 (II, III) History 9, 10 Italian 19, 20 Mathematics 7-8 (I) Mathematics 135, 136 Music 15, 16 *Music 107 *Music 110 Philosophy 1 (II) Philosophy 12 Physics 11-12 Psychology 2 (II) Psychology 37 Sociology 1-2 Spanish 1-2 (III) Spanish 3, 4 (I) Zoölogy 151

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

Hours	THURSDAY	FRIDAY	SATURDAY
A.M.	Botany 53-54 Economics 15, 16 *Economics b114 English 25-26 French 1-2 French 3, 4 (II) Geography 1-2 German 1-2 (III) German 17 German 28 Government 7, 8 History 55-56 History 93, 94 Latin 27, 28 Music 1a, 2a Philosophy 1 (III) or 2 (II) Philosophy 41-42 Psychology 1 (III) or 2 (III) Zoölogy 30	Chemistry 41-42 Chemistry 42a Economics 1-2 (IV) English 53-54 French 1-2 French 5, 6 (I) French 5x, 6x, (I) French 7, 8 (I) German 1-2 (I) German 3, 4 (I) German 36 German 51 Government 1, 2 (II) History 1-2 (I) History 5, 6 Italian 23, 24 Latin 3, 4 Latin 21, 22 Mathematics 1, 22 Mathematics 33 Mathematics 44 Philosophy 1 (I) or 2 (I) Philosophy 61-62 Physics 17 Physics 31, 34 Psychology 1 (I) Spanish 1-2 (I, II)	French 3, 4 (II) *History 123, 124 Philosophy 1 (III) or 2 (II) Psychology 1 (III) or 2 (III)
9			
10	Chemistry 5-6 Classical Civilization 49, 50 Economics 17, 18 English A (Va) English 3, 4 English 39, 40 English 61-62 English 77-78 Fine Arts 1-2 Fine Arts 62 French 9, 10 French 15, 16 Geology 3, 4 German 9, 10 History 35, 36 *History 151, 152 Mathematics 21R Mathematics 24 *Music 3 *Music 23-24 Philosophy 70 Philosophy 145-146 Psychology 23, 24 Religion 7, 8 Spanish 5, 6 Zoölogy 5, 6	American Studies 1-2 Chemistry 63, 64 Chemistry 106 Economics 1-2 (I) Economics 21, 22 English A (Ia, b, c) English 71, 72 Fine Arts 41 Fine Arts 67 (I) French 5, 6 (II) French 5x, 6x (II) French 7, 8 (II) French 21-22 French 23-24 German 7, 8 Greek 11, 12 History 51, 52 Mathematics 31-32 *Music 37-38 Psychology 1 (II) or 2 (I) Psychology 27, 28 Sociology 1-2 Spanish 15, 16 Zoölogy 97-98	Chemistry 5-6 English A (Va) *History 123, 124 Mathematics 21R Mathematics 24
11	*Astronomy 1-2 Botany 51-52 Botany 153, 58 Classical Civilization 55, 56 Economics 1-2 (III) Economics 13, 14 *Economics 161 English A (IVa) English A (VIA, b) English 49, 50 English 67, 68 Fine Arts 65, 66 *Fine Arts 176 (11-12:15) French 31, 32 French 34a Geography 1-2 German 25, 26 Greek 25, 26 History 1-2 (IV) *History 187, 188 Italian 15-16 Music 1-2 Philosophy 45, 46 Psychology 19, 22 Religion 1, 2 Spanish 21, 22 Zoölogy 13, 14	Anthropology 13, 14 Chemistry 145, 146 Chemistry 156 Economics 27, 28 English 21-22 (I) English 73, 74 Fine Arts 67 (II) French 5, 6 (III) French 5x, 6x (III) French 125-126 German 3, 4 (II) German 5, 6 Government 4 Government 13 History 1-2 (II, III) History 9, 10 Hygiene A1-A2 (IV) Italian 19, 20 Mathematics 7-8 (I) Mathematics 135, 136 Music 15, 16 Philosophy 1 (II) Philosophy 12 Physics 11-12 Psychology 2 (II) Sociology 1-2 Spanish 1-2 (III) Spanish 3, 4 (I) Zoölogy 151	English A1-A2 (VIA, b) History 1-2 (IV)

those marked with a dagger [†] are given at Teachers College.

SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
1:10 P.M.	Anthropology 1, 2 Botany 151-152 *Economics 101, 102 English A (IIa, b) English 21-22 (II) English 57, 58 *Fine Arts 141 *Fine Arts 152 French 3R, 6R French 5x, 6x (IV) French 11, 12 French 35, 36 Geology 27, 28 German 1-2 (II) German 3R, 4a Government 1, 2 (I) History 17, 18 Latin 11, 12 Mathematics 7-8 (II) Music 31-32 Philosophy 67, 68 Physics 36 Psychology 7-8 (I, II) Spanish 3, 4 (II) Spanish 13, 14		Anthropology 1, 2 Botany 151-152 *Economics 101, 102 English A (IIa, b) English 21-22 (II) English 57, 58 *Fine Arts 141 *Fine Arts 152 French 3R, 6R French 5x, 6x (IV) French 11, 12 French 35, 36 Geology 27, 28 German 1-2 (II) German 3R, 4a Government 1, 2 (I) History 17, 18 Latin 11, 12 Mathematics 7-8 (II) Music 31-32 Philosophy 67, 68 Physics 36 Psychology 7-8 (I, II) Spanish 3, 4 (II) Spanish 13, 14
2:10	Chemistry 105 Economics 1-2 (II) +Education 51ES-52ES English A (IIIa, b) Fine Arts 75, 76 *Fine Arts 146 French 3, 4 (I) Government 23, 24 Greek 1-2 History 63, 64 Italian 3-4 Italian 13, 14 Mathematics 27 Mathematics 31R Mathematics 32R Mathematics 56 *Music 35-36 Psychology 7-8 (I, II) Religion 5, 6 Sociology 7, 8 Spanish 1-2 (IV) Spanish 3, 4 (III) Spanish 24	Classical Civilization 53, 54 *Drawing u11-u12 Economics 4 +Education 53ES-54ES English 23-24 English 65, 66 Fine Arts 51, 52 Government 31, 32 Greek 1-2 History 33, 34 *History 181, 182 Hygiene A1-A2 (II) Italian 3-4 Music 11, 12 Psychology 7-8 (III, IV) Psychology 117 Religion 4 Sociology 31, 32 Zoölogy 1-2 Zoölogy 9-10	Anthropology 5, 6 Chemistry 105 Economics 1-2 (II) +Education 51ES-52ES English A (IIIa, b) Fine Arts 75, 76 *Fine Arts 190 French 3, 4 (I) Government 23, 24 Greek 1-2 History 63, 64 Italian 3-4 Italian 13, 14 Mathematics 27 Mathematics 31R Mathematics 32R Mathematics 56 *Music 131-132 Psychology 7-8 (I, II) Religion 5, 6 Sociology 7, 8 Spanish 1-2 (IV) Spanish 3, 4 (III) Spanish 24
3:10	Archaeology 61 Botany 59 Botany 124 +Education 51ES-52ES English 15, 16 *Fine Arts 148B Italian 1-2 *Italian 101-102 Latin 19-20 Mathematics 47 Mathematics 46 *Music 39-40 Psychology 7-8 (I, II) Religion 9, 10	*Archaeology 100 (3-4:25) Comparative Literature 7 *Drawing u11-u12 English 55, 56 English 65, 66 English 91, 92 (I) *Fine Arts 171 (3-4:25) Government 61, 62 Italian 1-2 Latin 37, 38 Music 1-2 *Music 19-20 Psychology 7-8 (III, IV) Psychology 117 Sociology 31, 32	Anthropology 5, 6 Archaeology 61 Botany 59 Botany 124 English 15, 16 English 91, 92 (II) *Fine Arts 190 Italian 1-2 *Italian 101-102 Mathematics 47 Mathematics 46 Music 2aR *Music 131-132 Psychology 7-8 (I, II) Religion 9, 10
4:10	*Fine Arts 148B *Fine Arts 163 (4:35-5:50) *Greek 103, 104 *Music 63, 64 (I)	*Archaeology 100 (3-4:25) Comparative Linguistics 1, 2 English 11, 12 (4-5:50) English 91, 92 (I) *Fine Arts 171 (3-4:25) Government 61, 62 *Music 13-14 Psychology 7-8 (III, IV) *Sociology 104 *Sociology 107	Economics 51, 52 English 91, 92 (II) *Fine Arts 194 *Government 171, 172 *Greek 103, 104
5:10	*Fine Arts 163 (4:35-5:50) *Music 63, 64 (I) *Spanish 103-104 Choir practice Glee Club (5-6:15)	English 11, 12 (4-5:50) *Music 13-14 *Sociology 104 *Sociology 107	Economics 51, 52 *Fine Arts 194 *Government 171, 172 Choir practice

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

Hours	THURSDAY	FRIDAY	SATURDAY
P.M. 1:10	Chemistry 65, 66 Economics 1-2 (III) *Fine Arts 147 French 7, 8 (I, II) Geography 1-2 History 55-56 Hygiene A1-A2 (III) Italian 15-16 Latin 29-30 Music 1-2 Sociology 21, 22 Spanish 9-10 Spanish 11-12	Anthropology 1, 2 Chemistry 5-6 English A (IIa, b) English 21-22 (II) English 57, 58 French 3R, 6R French 5x, 6x (IV) French 35, 36 Geology 27, 28 German 1-2 (II) German 3R, 4a Government 1, 2 (I) History 17, 18 Latin 11, 12 Mathematics 7-8 (II) Music 31-32 Physics 36 Psychology 3 Spanish 3, 4 (II)	
2:10	Classical Civilization 53, 54 *Drawing u11-u12 Economics 4 †Education 53ES-54ES English 23-24 English 65, 66 English 91, 92 (III) Fine Arts 51, 52 *Fine Arts 147 Geography 1-2 Government 31, 32 Greek 1-2 History 33, 34 *History 181, 182 Italian 3-4 Music 11, 12 Psychology 7-8 (III, IV) Psychology 119 Religion 4 Sociology 21, 22 Zoölogy 1-2 Zoölogy 9-10	Chemistry 105 Economics 1-2 (II) Economics 41, 42 English A (IIIa, b) English 91, 92 (IV) *Fine Arts 146 French 3, 4 (I) German 1-2 (III) Greek 1-2 Italian 3-4 Italian 13, 14 Mathematics 27 Mathematics 31R Mathematics 32R Mathematics 56 *Music 35-36 Psychology 3 Sociology, 7, 8 Spanish 1-2 (IV) Spanish 3, 4 (III)	
3:10	*Archaeology 100 (3-4:25) Comparative Literature 7 *Drawing u11-u12 †Education 53ES-54ES English 23-24 English 55, 56 English 65, 66 English 91, 92 (III) *Fine Arts 171 (3-4:25) Government 11 Italian 1-2 Latin 37, 38 *Music 19-20 Psychology 7-8 (III, IV) Psychology 119 Sociology 41, 42	Economics 41, 42 English 91, 92 (IV) Fine Arts 67 (I, II) French 11, 12 Italian 1-2 Mathematics 47 Mathematics 46 Music 2aR Psychology 3	
4:10	*Archaeology 100 (3-4:25) Comparative Linguistics 1, 2 *Fine Arts 163 (4:35-5:50) *Fine Arts 171 (3-4:25) Government 11 History 79, 80 Psychology 7, 8 (III, IV) Sociology 41, 42		
5:10	*Fine Arts 163 (4:35-5:50) *Latin 139-140 *Spanish 103-104	Choir practice	

those marked with a dagger [†] are given at Teachers College.

ACADEMIC CALENDAR

1941-1942

1941

July 7 — Monday. Forty-second Summer Session of Columbia University begins.

Aug. 15 — Friday. Forty-second Summer Session of Columbia University ends.

Aug. 18 — Monday. Last date for application for the September examinations of the College Entrance Examination Board. The privilege of later application may be granted on payment of a late fee.

Sept. 2 — Tuesday. Last day for filing applications for deficiency examinations. The privilege of later application may be granted on payment of a fee of \$5.

Sept. 8 — Monday. Entrance examinations begin.

Sept. 15 — Monday. Examinations for deficient students begin.

Sept. 19 — Friday. Registration (including the payment of fees) begins.

Sept. 23 — Tuesday. Registration ceases for Barnard students previously matriculated.
The privilege of later registration may be granted on payment of a fee of \$5.

Sept. 24 — Wednesday. Winter Session, fifty-third year, begins.
Registration ceases for students matriculating for the first time.
The privilege of later registration may be granted on payment of a fee of \$5.

Sept. 25 — Thursday. Classes begin.

Oct. 21 — Tuesday. Stated meeting of University Council.

Nov. 4 — Tuesday. Election Day. Holiday.

Nov. 25 — Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.

Nov. 27 — Thursday
to

Nov. 29 — Saturday, inclusive. Thanksgiving holidays.

Dec. 16 — Tuesday. Stated meeting of University Council.

Dec. 22 — Monday
to

1942

Jan. 4 — Sunday, inclusive. Christmas holidays.

Jan. 11 — Sunday. Annual Commemoration Service in St. Paul's Chapel.

Jan. 19 — Monday. Mid-year examinations begin.

Jan. 30 — Friday and

Feb. 2 — Monday. Registration for students who have been in attendance during the Winter Session and whose programs have been approved.

The privilege of later registration for these students may be granted on payment of a fee of \$5.

Feb. 3 — Tuesday. Winter Session ends.

Registration for students matriculating for the first time and for students who have been in attendance during the Winter Session and whose registration is deferred to this date by ruling of the Committee on Students' Programs.

The privilege of a late registration may be granted on the payment of a fee of \$5.

Feb. 4 — Wednesday. Spring Session begins. Classes begin.

Feb. 12 — Thursday. Alumnae Day.

Feb. 17 — Tuesday. Stated meeting of University Council.

Feb. 23 — Monday. Washington's Birthday. Holiday.

March 2 — Monday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.

March 29 — Sunday

to

April 5 — Sunday, inclusive. Easter holidays.

April 11 — Saturday. Scholarship and admission examinations conducted by the College Entrance Examination Board.

April 21 — Tuesday. Stated meeting of University Council.

May 18 — Monday. Final examinations begin.

May 30 — Saturday. Memorial Day. Holiday.

May 31 — Sunday. Baccalaureate Service.

June 2 — Tuesday. Conferring of degrees.

June 10 — Wednesday. Spring Session ends.

June 13 — Saturday. Examinations of the College Entrance Examination Board begin. The dates for filing applications are contained in a circular issued by the Board, 431 West 117th Street, New York, N. Y.

July 7 — Tuesday. Forty-third Summer Session of Columbia University begins.

Aug. 14 — Friday. Forty-third Summer Session of Columbia University ends.

Aug. 17 — Monday. Last day for filing applications for entrance examinations. The privilege of later application may be granted on payment of a fee of \$5.

Aug. 29 — Saturday. Last day for filing applications for deficiency examinations.

Sept. 7 — Monday. Entrance examinations begin.

Sept. 14 — Monday. Examinations for deficient students begin.

Sept. 18 — Friday. Registration (including the payment of fees) begins.

Sept. 22 — Tuesday. Registration ceases for Barnard students previously matriculated.

The privilege of later registration may be granted on payment of a fee of \$5.

Sept. 23 — Wednesday. Winter Session, fifty-fourth year, begins.

Registration ceases for students matriculating for the first time. The privilege of later registration may be granted on payment of a fee of \$5.

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Lab. Technique:

Bacteriology (general + organic)

3 yrs. Chem. (1 term organic, start)

Zoology 1-2

13-14 Histology

151-52 or 97-98

Physiol - Bio-chem

1 yr Physics

1 yr. Bot. (botany 151-52)

organic before or parallel

German

X-ray techniques

Dr. J. R. Carly

n.y. Hospital

525 E. 68

n.y.c.

